#### IN THE UNITED STATES PATENT AND THANK OFFICE

In Re Application of:

Herman Chien

Confirmation No.: 6102

MAY 0 4 2006

**Application No: 09/665,780** 

Filing Date: September 20, 2000

For: SUBSCRIPTION-BASED BILLING METHODS AND SYSTEMS FOR

SHARED NETWORK MODEM POOLS

#### VIA HAND DELIVERY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Frame(s) 0295.

#### STATEMENT UNDER 37 CFR § 3.73(b)

Cingul	ar Wireless, II, LLC, a limited liability company
states t	hat it is:
$\boxtimes$	the assignee of the entire right, title, and interest; or
	an assignee of an undivided part interest
in the p	patent application/patent identified above by virtue of either:
A. 🔲	An assignment from the inventor(s) of the patent application/patent identified above.
	☐ 1. The assignment was recorded in the Patent and Trademark Office at Reel , Frame(s) .
	2. The assignment has not yet been recorded. A copy of the assignment is attached.
	A chain of title from the inventor(s), of the patent application/patent identified above, current assignee as shown below:
	i. From: Herman Chien To: AT&T Wireless Services, Inc. The document was recorded in the Patent and Trademark Office at Reel 011155

- ii. From: New Cingular Wireless Services, Inc. (f/k/a AT&T Wireless Services, Inc.) To: Cingular Wireless, II, LLC. The document was sent to the United States Patent and Trademark Office for recordation on September 27, 2005. A copy thereof is attached
- Additional documents in the chain of title are listed on a supplemental sheet.
- Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: May 1, 2006

Signature

Name: Christopher M. Arena

Reg. No.: 35,429

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia, PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

) WW

. G. . . . (7)

**DOCKET NO.: CING-0615/768.US** 



**PATENT** 

#### IN THE UNITED STATES PAT EMARK OFFICE

In Re Application of:

Herman Chien

Confirmation No.: 6102

Application No.: 09/665,780

Group Art Unit: 2643

Filing Date: September 20, 2000

Examiner: Nguyen, Duc Minh

SUBSCRIPTION-BASED BILLING METHODS AND SYSTEMS FOR

SHARED NETWORK MODEM POOLS

#### VIA HAND DELIVERY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### POWER TO INSPECT AND MAKE COPIES

The undersigned is the Attorney or agent of record registration no 35,429 hereby authorizes Mary I. Watson and Christina Mraz to inspect, monitor and make copies of the file history of the above-identified application.

edtfully submitted

Christopher M. Xrena Registration No. 35,429

Date: May 1, 2006

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439



**PATENT** 

#### IN THE UNITED STATES P DEMARK OFFICE

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MAY 0 4 2006

PTO/SB/80 (04-05) Approved for use through 11/30/2005, OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

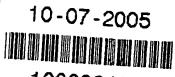
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POWER OF ATTORNEY TO PROSE TUTE APPLICATIONS BEFORE THE USPTO

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l hereby rev 37 CFR 3.7	oke all previous powers of	of attorney giver	in the app	ication identified i	n the attached sta	tement under
l hereby ap						
<b>✓</b> Practition	oners associated with the Custo	mer Number:		54499		
OR		١				
Practition	oner(s) named below (if more th	an ten patent practi	tioners are to I	e named, then a custo	omer number must be	used):
	Name		istration umber	N	ame	Registration Number
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any and all pa attached to th	or agent(s) to represent the un stent applications assigned <u>only</u> is form in accordance with 37 C	to the undersigned FR 3.73(b).	according to t	ne USP IO assignmen	records or assignme	ni documents
Please chang	e the correspondence address	for the application is	dentified in the	attached statement ur	nder 37 CFR 3.73(b) to	<b>D</b> :
The	address associated with Custo	omer Number:				
OR						
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	ar Wireless, II, LLC					
	Glenridge Connector					
Atlanta	a, Georgia 30342					
	this form, together with a	.4.4	37 CED 3 7	3(b) (Form PTO/SP	/96 or equivalent)	is required to be
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the practit	ioners appointed in this fo	orm if the appoin	ted practitic	ner is authorized t	o act on behalf of	the assignee,
and must	identify the application in	which this Powe	r of Attorne	y is to be filed.		
	The individual whose si	SIGNATUR Enature and title is	RE of Assigne supplied belov	e of Record v is authorized to act o	n behalf of the assign	ee
		1				y 21, 2006
Signature	C 2 Car	m			Telephone	y 211 2000
Name	Carol Tacker				retepriorie	
Title	Vice President, Assistan	t General Coun:	sel, Corpora	ate Secretary		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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TRADEMAN IN	
.1030964	
To the Director of the U.S. Patent and Trademark Office: Please	
Name of conveying party(les)/Execution Date(s):	2. Name and address of receiving party(les)
AT&T Wireless Service, Inc.	Name: Cingular Wireless II, LLC.
	Internal Address: Suite 1700
;	
Execution Date(s) 10/27/2005; 4/11/2005	Street Address: 5565 Glenninge Conn.
Additional name(s) of conveying party(les) attached? Yes V No	
3. Nature of conveyance:	· .
Assignment Merger	City: Atlanta
Security Agreement Change of Name	State: Georgia
Government Interest Assignment	Country: usa Zip: 30342
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? ☐ Yes ✓ No
	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
See Attached Sheets	See Attached Sheets
	See Attached Sheets  PR III Inched? Ves No
Additional numbers at	tached? Yes No
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 513
Name: Cinquiar Wireless, LLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 20,520
Internal Address: Attn: Linda Giles	Authorized to be charged by credit card
#1725A	Authorized to be charged to deposit account
Street Address: 6565 Glenridge Connector	Enclosed  None required (government interest not affecting title)
City: Atlanta	8. Payment Information
State: Georgia Zip: 30342	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 404-236-6720	b. Deposit Account Number <u>502450</u>
Fax Number:	Authorized User Name Coulter C. Henry
Email Address: linda.glles@cingular.com	Authorized Cool Name Conter C. Halle
9. Signature:	9/27/2005
Signature	Date
Coulter C. Henry; Reg. No.: 51,121  Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:

#### **Patents**

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5197092	5889814	6085114	6334188
5541977	5896425	6092110	6343120
5611176	5903845	6118778	6359923
5638081	5905955	6122503	6363127
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5659578	5907801	6134261	6377783
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5845207	5991410	6223042	6445912
5854984	5995830	6229885	645 <b>68</b> 43
5864543	5995834	6230009	645 <b>97</b> 40
5865503	6002664	6239719	6459897
5870722	6002935	6256518	6470043
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6570983	6725033	5455964
6571094	6741635	5463678
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		<del> </del>	10134 1003

#### **Patent Applications**

10/941247

10/933677

10/940576

10/939103

29/213592

10/367981

#### PATENT ASSIGNMENT AGREEMENT

4048817777

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is executed by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") t/k/a AT&T Wireless Services, Inc., on the one hand, and Cingular Wireless II, Inc., a Delaware corporation ("Assignee"), on the other hand.

WHEREAS, Assignor is the owner of certain patentable inventions, patent applications and patents (as disclosed and set forth in Schedule A; collectively, the "Patents"), which Assignor desires to assign to Assignee; and

WHEREAS, Assignee desires to accept such assignment of the Patents.

NOW, THEREFORE, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. Assignment of Patents. Effective as of the date hereof, Assignor assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all of Assignor's right, title and interest in and to the Patents, all agreements and contracts of Assignor related to such Patents (the "Related Agreements") and the improvements and inventions disclosed in said Patents throughout the world, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions and improvements in Assignee's own name throughout the world including all rights of priority. all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries. Assignor authorizes and requests the Commissioner of Patents and Trademarks and any foreign registrar or governmental authority to issue all patents on said applications or applications resulting therefrom to said Assignee, as assignee of Assignor's entire interest. Assignor agrees that it will communicate to said Assignee or its representatives any facts known to Assignor respecting said improvements and inventions, and, at Assignee's expense, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said Patents in all countries, and asserts that it will not execute any agreements inconsistent therewith. Assignee acknowledges that Assignor's assignment of any jointly owned Patent identified on Schedule A shall be subject to any rights such joint owner may have in such Patent.
- 2. <u>Assumption</u>. Effective as of the date hereof, Assignee hereby assumes the due and full payment and performance of all of the liabilities and obligations of Assignor under the Related Agreements.
- 3. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the United States of America and of the State of Delaware.

ATL01/11768196v1

- 4. Successors and Assigns. This Assignment shall inure to the benefit of and be binding on the successors and assigns of both parties.
- 5. Patents Subject to Consent. To the extent that any of the Assignor's right, title or interest in and to the Patents or any other rights, contracts, agreements or assets of the Assignor related thereto and/or liabilities or obligations of Assignor purported to be assigned hereunder may not be assigned, transferred or conveyed to, or assumed by, Assignee without the consent, release, authorization or waiver of any third party and such consent, release, authorization or waiver has not been obtained prior to the date hereof (such Patents and other rights, contracts, agreements and assets, the "Non-Transferable Patents" and such liabilities and obligations, "Non-Transferable Liabilities"), this Assignment shall not constitute an assignment, transfer, conveyance or assumption or an attempted assignment, transfer, conveyance or assumption thereof. In this circumstance, this Assignment shall to the extent possible under the Non-Transferable Patent and applicable law constitute an equitable assignment by Assignor to Assignee of all of Assignor's right, title and interest in and to, the Non-Transferable Patents and Assignee shall be deemed to be Assignor's agent for the purpose of paying, performing or discharging the Non-Transferable Liabilities on behalf of Assignor. Assignor shall take all actions reasonably requested by Assignee to provide Assignee with the benefits of the Non-Transferable Patents, including with respect to the enforcement of rights with respect thereto. Assignee shall, with respect to the Non-Transferable Liabilities, pay, perform or discharge in accordance with their terms all liabilities and obligations of Assignor under the Non-Transferable Liabilities. If Assignor is unable to effect an equitable assignment of any Non-Transferable Patent, Assignor shall transfer to Assignee an amount of cash equal to the fair market value (determined as of the date of this Assignment) of such Non-Transferable Patent.

[signatures on following pages]

Executed this 27th day of October, 2004.

Assignor: NEW CINGULAR WIRELESS SERVICES, INC. f/k/a
AT&T Wireless Services, Inc.

Ву:

Name: Stephen A. McC

Title: Vice President-

APPROVED:

STATE OF GEORGIA
COUNTY OF Fullon

On this 1 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared 5 fores A. Mc Gaw known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

Sherry of Garret

SHERRY L. GARRETT - NOTARY PUBLIC

County of DeKalb

State of Georgia

My Commission Expires Oct. 16, 2005

Acknowledged this 27 th day of October, 2004.

Assignee: CINGULAR WIRELESS II, INC.

By:

KEPROYELY

4048817777

STATE OF **COUNTY OF** 

On this 27 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stephen Mc Gaw known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

SHERRY L. GARRETT - NOTARY PUBLIC

Sherry of Harrett

County of DeKalb

State of Georgia

My Commission Expires Oct. 16, 2005

## Schedule A

### **Patents**

# All inventions and trade secrets and related rights of Assignor not otherwise listed below

Docket	Application	Patent	Č	Country	Application Date	Grant Date	Title
Number	Number	Number				40 1.5 07	Antenna for Enhanced
145.US	08/490563	5638081	AT&T Wireless	United States	15-Jun-95	10-30II-97	Spanner of the spanne
		D202462	AT&T Wireless	United States	07-Jun-95	09-Sep-97	Antenna
148.US	29/041775	D202403	ATOT Misologe	European Patent	06-Oct-94		Antenna Mounting System
149.EPC	95902387		PICOLO IN INC.	00000	96 hin 95	24~hin-97	Antenna Mounting System
149.US	1965220	5641141	AT&T Wireless	Ullien States	20.00		Arrangement of Displays
				Inited States	23-Sep-94	13-Jan-98	for a Wireless Communications Terminals
150.US	29/024956	D389140	Al&i Wireless	Oillied Otalica		47 0-4 05	Wireless Communications
153115	29/024955	D363281	AT&T Wireless	United States	23-Jun-94	C6-30-71	Personal Communicator
			ATOT Missings	United States	26-Nov-97	01-Jul-03	With Flip Element Display
154.US.C2	08/979110	6587700	Constitution V				Personal Communicator  With File Flement Display
154 (15.02/1)	10/455125		AT&T Wireless	United States	05-Jun-03		High Rate Reed-Solomon
							Concatenated Trellis
							System for Transmission of
					1	4	Data Over Cellular Mobile
155 BP	P19509749-0	P19509749-0	AT&T Wireless	Brazil	22-Nov-95	17-180-04	High Rate Reed-Solomon
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,							Coded 16 Star OAM
,							System for Transmission of
	•				30		Data Over Cellular Mobile Radio
155.CA	2203903		AT&T Wireless	Canada	CS-MON-77		

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Title	High Rate Reed-Solomon Concatenated Trellis Coded 16 Star OAM System for Transmission of Data Over Cellular Mobile	300	High Kate Keed-Solomon Concatenated Trellis Coded 16 Star QAM	System for refrancescory of Data Over Cellular Mobile Radio	High Rate Reed-Solomon Concatenated Trellis	Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile		Cyclic Trellis Coded Modulation		ellis Coded on	Cyclic Trellis Coded Modulation	Cyclic Trellis Coded Modulation	Cyclic Trellis Coded Modulation	Cyclic Trellis-Coded Modulation	Cyclic Trellis-Coded Modulation	System and Method for Wireless Transmission of	Digital Data Using Differentially Encoded Pilot	Differentially Encoded Pilot	Word System and Method
	High Rate Concatent Coded 16 System fo	Radio	Concatent Coded 16	Data Over Radio	High Rate Concaten	Coded 16   System fo   Data Ove	Radio	Cyclic Trell Modulation	Cyclic Trelli Modulation	Cyclic Trellis Modulation	Cyclic Trell Modulation	Cyclic Trelli Modulation	Cyclic Treff Modulation	Cyclic Trell Modulation	Cyclic Trelli Modulation	System 8	Digital D Different	Different	Word Sy
Grant Date		16-Mar-00		19-Aug-97			17-Nov-98	13-Apr-04	25-May-00	07-Oct-97	03-Aug-99	21-Jul-98	25-May-99	10-Jun-03			1	20-00-0	
Application Date		22-Nov-95		23-Nov-94			06-May-97	22-Nov-95	22-Nov-95	23-Nov-94	09-Jul-97	11-Dec-95	17-Nov-95	04-Jan-02	07-May-03			C8-A0A-77	22-Nov-95
Country		Mexico		United States		-	United States	Brazil	Mexico	United States	United States	United States	United States	United States	United States		:	Srazii	Canada
Owner		AT&T Wireless		AT&T Wireless			AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless			AT&T Wireless	AT&T Wireless
Patent		195559		5659578			5838728	pollod	40ee47	190047	5031065	5704447	50074417	GET 9473				P19509910-7	
Application		9703830		08/344156			-626907	9 8000000	20000000	9703031	00/344111	TOCOCO TOCOCO	08/57/0289	17710000	10(038030	10/424263		PI9509910-7	2203902
Docket		155.MX · 9					155 HS C4	-				130.03.01	156.03.07	130.03.02	156.03.02(1)	130.03.020.(2)		157.BR	157.CA

Docket         Application Number         Patent Number         Owner           Number         Number         Owner           157.MX         9703832         195560         AT&T Wireless           157.US         08/344238         5809083         AT&T Wireless           177.DE         566582         69128727.9         AT&T Wireless           177.DK         92900021.4         566582         AT&T Wireless           177.FR         92900021.4         566582         AT&T Wireless           177.GB         9266582         566582         AT&T Wireless           177.SF         566582         AT&T Wireless           177.SP         566582         AT&T Wireless								
Section   Number   Number   Number   Number   Number   Number   Section   Section	Docket	Application	Patent	Cunor	Country	Application Date	Grant Date	Title
9703832 195560 A 08/344238 5809083 A 566582 69128727.9 A 8 92900021.4 566582 A 8 92900021.4 566582 A 8 566582 566582 A P 566582 2112309	Number	Number	Number					for Wireless Transmissions of Digital Data
9703832 195560 A 08/344238 5809083 A 566582 69128727.9 A 8 92900021.4 566582 A 8 92900021.4 566582 A E 566582 566582 A P 566582 566582								System and Method for Wireless Transmission of Digital Data Using Differentially Encoded Pilot
566582 5809083 A 566582 69128727.9 A 792900021.4 566582 A 8 92900021.4 566582 A 566582 566582 A F 566582 566582		0703832	195560	AT&T Wireless	Mexico	22-Nov-95	16-Mar-00	Words
566582 69128727.9 A 92900021.4 566582 A 92900021.4 566582 A 566582 566582 A 566582 566582 A	Via: 10	70000	00000	AT &T Wireless	United States	23-Nov-94	15-Sep-98	Differentially Encoded Pilot Word System and Method for Wireless Transmissions of Digital Data
566582 69120721.3 92900021.4 566582 6 92900021.4 566582 6 566582 566582	57.US	UBI/34423B	2009003	AT&T Mirelage	Germany	31-0cl-91	14-Jan-98	Location Registration System for a Personal Communicator Such as a Cellular Telephone
92900021.4 566582 / 566582 566582 566582 566582 566582 566582 566582	77.DE	299987	6.12.021.80	AT 8.T Wireless	Denmark	31-001-91	14-Jan-98	Location Registration System for a Personal Communicator Such as a Cellular Telephone
92900021.4 566582 566582 566582 566582 2112309	77.DK	92900021.4	700000	School Target	France	31-0ct-91	14-Jan-98	Location Registration System for a Personal Communicator Such as a Cellular Telephone
566582 566582 566582 2112309	77.FR	92900021.4	200302	AT&T Wireless	Great Britain	31-Oct-91	14-Jan-98	Location Registration System for a Personal Communicator Such as a Cellular Telephone
566582 2112309	177.GB	92300021.4 566582	566582	AT&T Wireless	Sweden	31-Oct-91	14-Jan-98	Location registration System for a Personal Communicator Such as a Cellular Telephone
	177.SP	566582	2112309	AT&T Wireless	Spain	31-Oct-91	14-Jan-98	System for a Personal Communicator Such as a Cellular Telephone Location Registration
177   S197092   AT&T Wireles	77 US	07/606523	5197092	AT&T Wireless	United States	31-04-90	23-Mar-93	System for a Personal Communicator Such as a Cellular Telephone Powered Down Selection
2188334 2188334	206.CA	2188334	2188334	AT&T Wireless	Canada	21-Oct-96	17-Apr-01	of a Preferable Wireless Communications Service Provider in a Multi-Service

Docket         Application Number         Patent Number         Owner         Country Name         Application Date           206_EPC         96120004.5         779751         AT&T Wireless         European Palent II-Dec-96         10-           206_EPC         96120004.5         779751         AT&T Wireless         Genet Britain         12-Dec-96         10-           206_GB         96120004.5         779751         AT&T Wireless         Genet Britain         12-Dec-96         10-           206_GB         306_GG         AT&T Wireless         Mexico         09-Dec-96         06-           206_US         096_70902         6236235         AT&T Wireless         United States         12-Dec-96         06-           206_US         106_570902         6236235         AT&T Wireless         United States         14-Jun-99         06-           206_US         25322         6311064         AT&T Wireless         Britari         06-Jun-97         06-Jun-97           207_MX         961350         AT&T Wireless         Mexico         06-Jun-97         06-Jun-97           207_MX         961350         AT&T Wireless         AT&T Wireless         Mexico         06-Jun-97           207_MX         961350         AT&T Wireless         AT&T Wi								
Set 20004.5   778751   AT&T Wireless   Convention   12.Dec.96   1	Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
Set 20004.5	Number	ипшрег	Number					Provider Environment
Se120004.5   779751   AT&T Wireless   Convention   12-Dec-96   1								
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Seizonous			•					Communications Service
96120004.5   779751   AT&T Wireless   Convention   12-Dec-96   1					European Patent			Provider in a Multi-Service
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96120004.5   779751   AT&T Wireless   Great Britain   12.Dec.96   1					-			of a Preferable Wireless
966233   202958   AT&T Wireless   Great Britain   12-Dec-96   1								Communications Service
966233 202958 AT&T Wireless Great Circain 12-00-05 09/670902 6296235 AT&T Wireless United States 12-06c-96 ( 1065658 AT&T Wireless United States 14-Jun-99 10706558 AT&T Wireless United States 28-Now-00 107070902 AT&T Wireless Wexico 09-Jun-97 1081350 AT&T Wireless Wexico 09-Jun-97 1081350 AT&T Wireless Cooperation 09-Jun-97			- - - - -		Crost Date	12.Dec.06	10-Dec-03	Provider in a Multi-Service Provider Environment
966233   202958   AT&T Wireless   Mexico   09-Dec-96   C     08/570902   6239235   AT&T Wireless   United States   12-Dec-95   C	206.GB	96120004.5	779751	A!&! Wireless	GIBBI DIRBIII	15-060-30	200	Powered Down Selection
966233   202958   AT&T Wireless   Mexico   09-Dec-96   C     08/570902   6296235   AT&T Wireless   United States   12-Dec-95   C     1065658   AT&T Wireless   United States   14-Jun-89     102								of a Preferable Wireless
966233   202958   AT&T Wireless   Mexico   09-Dec-96   C     08/570902   6296235   AT&T Wireless   United States   12-Dec-95   C     1065658   AT&T Wireless   United States   14-Jun-99     1065658   AT&T Wireless   United States   28-Nov-00     1065656   AT&T Wireless   Brazil   09-Jun-97     1065656   AT&T Wireless   Mexico   09-Jun-97     1065656   AT&T Wireless   Cooperation   09-Jun-97     1065656   AT&T Wireless   AT&T Wireless   Cooperation   09-Jun-97     1065656   AT&T Wireless   AT&T Wireless   Cooperation   09-Jun-97     1065656   AT&T Wireless   A	•							Communications Service
C1         1065658         AT&T Wireless         Mexico         09-Dec-96         C           C2         -25322         6236235         AT&T Wireless         United States         12-Dec-95         (           C2         -25322         6311064         AT&T Wireless         United States         14-Jun-99           C3         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C3         -25322         6311064         AT&T Wireless         Mexico         09-Jun-97           C3         -25322         AT&T Wireless         AT&T Wireless         Brazil         09-Jun-97           C3         -25322         AT&T Wireless         Cooperation         09-Jun-97								Provider in a Multi-Service
1065658   AT&T Wireless   United States   12-Dec-95   Care   Ca	24 6 6 6	-	202050	AT&T Wireless	Mexico	09-Dec-96	06-Jul-01	Provider Environment
C1         1065658         AT&T Wireless         United States         12-Dec-95         0           C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C3         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C4         981350         AT&T Wireless         Mexico         09-Jun-97           C7         POCTAUS97/10095         AT&T Wireless         Cooperation         09-Jun-97	ZUD.MX	300233	202300					Powered Down Selection
C1         1065658         AT&T Wireless         United States         12-Dec-95         0           C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C3         9706556         AT&T Wireless         Mexico         09-Jun-97           C4         981350         AT&T Wireless         Patent         09-Jun-97           C4         Patent         Cooperation         09-Jun-97								of a Preferable Wireless
C1         1065658         AT&T Wireless         United States         12-Dec-95         0           .C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           .C2         -25322         6311064         AT&T Wireless         Brazil         09-Jun-97           .C3         981350         AT&T Wireless         Reacht         09-Jun-97           .C3         Petent         O9-Jun-97								Communications Service
C1         1065658         AT&T Wireless         United States         12-Dec-95           C2         -25322         6311064         AT&T Wireless         United States         14-Jun-99           C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           C3         9706556         AT&T Wireless         Mexico         09-Jun-97           C4         981350         AT&T Wireless         Patent         09-Jun-97           C5         -25322         AT&T Wireless         O9-Jun-97		-				,		Provider in a Muni-Service
C1         1065658         AT&T Wireless         United States         14-Jun-99           .C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           .C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           .C2         -25322         6311064         AT&T Wireless         Brazil         09-Jun-97           .C3         981350         AT&T Wireless         Patent         09-Jun-97           .C3         PCT/US97/10095         AT&T Wireless         Cooperation         09-Jun-97	208118	08/570902	6298235	AT&T Wireless	United States	12-Dec-95	02-Oct-01	Provider Environment
1065658         AT&T Wireless         United States         14-Jun-99           -25322         6311064         AT&T Wireless         United States         28-Nov-00           9706556         AT&T Wireless         Brazil         09-Jun-97           PCT/US97/10095         AT&T Wireless         Patent         09-Jun-97           PCT/US97/10095         AT&T Wireless         Cooperation         09-Jun-97	20.00	700						Powered Down Selection
1065658         AT&T Wireless         United States         14-Jun-99           25322         6311064         AT&T Wireless         United States         28-Nov-00           9706556         AT&T Wireless         Brazil         09-Jun-97           PCT/US97/10095         AT&T Wireless         Patent         09-Jun-97           PCT/US97/10095         AT&T Wireless         Cooperation         09-Jun-97								Old Freidiable Wildies
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-25322 6311064 AT&T Wireless United States 28-Nov-00 9706556 AT&T Wireless Brazil 09-Jun-97 981350 AT&T Wireless Mexico 09-Jun-97 Patent Patent 09-Jun-97 CCT/US97/10095 AT&T Wireless Cooperation 09-Jun-97	208 US C1	1065658		AT&T Wireless	United States	14~Jun-99		Damard Dam Salaction
C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           9706556         AT&T Wireless         Brazil         09-Jun-97           981350         AT&T Wireless         Mexico         09-Jun-97           Petent         Patent         09-Jun-97           AT&T Wireless         Cooperation         09-Jun-97								of a Preferable Wireless
C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           9706556         AT&T Wireless         Brazil         09-Jun-97           981350         AT&T Wireless         Mexico         09-Jun-97           Patent         Patent         09-Jun-97           AT&T Wireless         Cooperation         09-Jun-97	•							Communications Service
C2         -25322         6311064         AT&T Wireless         United States         28-Nov-00           9706556         AT&T Wireless         Brazil         09-Jun-97           981350         AT&T Wireless         Mexico         09-Jun-97           Petent         Patent         09-Jun-97           T         PCT/US97/10095         AT&T Wireless         Cooperation         09-Jun-97						-		Provider in a Multi-Service
STATE   STAT			7007700	ATPT Mirelace	United States	28-Nov-00	30-Oct-01	Provider Environment
9706556 AT&T Wireless Brazil  981350 AT&T Wireless Mexico  Patent  PCT/US97/10095 AT&T Wireless Cooperation	206.US.C2	-25322	6311064	Alai Wildidaa				Memory Exceed
9706556 AT&T Wireless Brazil  981350 AT&T Wireless Mexico  Patent  Patent  AT&T Wireless Cooperation			<u>.</u>					Notification for Wireless
9706556 AT&T Wireless Brazil 981350 AT&T Wireless Mexico Patent AT&T Wireless Cooperation				-			-	Network Communication
981350 AT&T Wireless Mexico Patent AT&T Wireless Cooperation	207 00	0708556		AT&T Wireless	Brazil	09-Jun-97		Device
981350 AT&T Wireless Mexico Patent Patent AT&T Wireless Cooperation	70. VO	91,000,00						Memory Exceed
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PCT/US97/10095 AT&T Wireless Cooperation				A TOT Mirelless	Mexico	09-Jun-97		Device
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PC1/US9//10095				AT&T Wireless	Cooperation	09-Jun-97		Notification for Wireless
	207.PCT	PCT/US97/10095		אומוסוסווא ושונע				

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Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	OWNE	Treaty			Network Communication Device
					22 ha 07	24-Aug-00	Memory Exceed Notification for Wireless Network Communication Device
207.TW	86108772	114335	AT&T Wireless	Iawan	20-July-31		Memory Exceed
				Linited States	07-Mar-00	30-Sep-03	Notification for Wireless Network Communication Device
207.US.C1	09/519993	6628935	AIĞI WIRRES	OIIIIGO OIIIIGO			Landline-Supported Private
·				Towner	12-Dec-97	08-Sep-99	base Station for Concounty Data and Switchable Into a Cellular Network
WT.602	86118807	103007	AT&I WIREIESS	Idiwaii			Landline-Supported Private
					47.Dec.08	02-Jan-01	Base Station for Collecting Data and Switchable Into a Cellular Network
209.US	08/768371	6169895	AT&T Wireless	United States	11-060-30		Telephone System Having
				i i	24. lim.07		Landline-Supported Private Base Station Switchable Into Cellular Network
210.BR	9710989-4		AT&T Wireless	Drazii	24-201-0		Telephone System Having
							Landline-Supported Private Base Station Switchable
210 CA	2259273	2259273	AT&T Wireless	Canada	24~Jun-97	18-Mar-03	Telephone System Having
2000		·		European Patent	24. hm-97		Landline-Supported Private Base Station Switchable Into Cellular Network
210.EPC	97930213		AT&T Wireless	Convention	2		Telephone System Having
		<del></del>					Landline-Supported Private Base Station Switchable
210.JP	10-504243		AT&T Wireless	Japan	24~Jun-97		Telephone System Having
							Landline-Supported Private Base Station Switchable
			AT&T Wireless	Mexico	24~Jun-97		Into Cellular Network
210.MX	880238					7.	I elephone System naving
							Base Station Switchable
210 TW	86108826	93482	AT&T Wireless	Taiwan	24-Jun-97	16-Jul-98	INTO Celiular Metwork
410					•		

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
							Telephone System Having
		•					Landline-Supported Private
				1 Inited Ctatos	28_1un_06	07-Mar-00	base Station Switchapie Into Cellular Network
210.05	08/6/1/45	6035193	Algi Wireless	חוונפת סומופס	20-100-07		Roaming Authorization
211 CA	2195494	2195494	AT&T Wireless	Canada	20-Jan-97	24-Apr-01	System
				Curonon Dotont		,	coltection original
244 EDC	97101730 6		AT&T Wireless	Convention	04-Feb-97		System
24116	1061340	6411907	AT&T Wireless	United States	05-Feb-96	25-Jun-02	Roaming Authorization System
244 118 64	10/051713	B560455	AT&T Wireless	United States	17-Jan-02	06-May-03	Roaming Authorization System
213.CA	2195487	2195487	AT&T Wireless	Canada	20-Jan-97	15-Oct-02	Location-Dependent Cellular Service Profile
213115	08/603290	5950125	AT&T Wireless	United States	20-Feb-96	07-Sep-99	Location-Dependent Cellular Service Profile
				i co	20 Ech 07		Method and Apparatus for Determining the Location of a Mohile Telephone
218.BR.CP1	-74447		AI & I WIREIESS	Drazii	Z0-L8D-3/		Method and Apparatus for
218.CA.CP1	2195591	2195591	AT&T Wireless	Canada	21-Jan-97	04-Sep-01	Determining the Location of a Mobile Telephone
248 MX CD1	071205	200820	AT&T Wireless	Mexico	17-Feb-97	09-Feb-01	Method and Apparatus for Determining the Location of a Mobile Telephone
21816	08/472082	2730354	AT&T Wireless	United States	07-Jun-95	24-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
218 19 CD1	08/603793	5724660	AT&T Wireless	United States	20-Feb-96	03-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
221 CA	2191143	2191143	AT&T Wireless	Canada	25-Nov-96	16-May-00	Radio Telephone With Detachable Pager
271 US	08/576385	5854984	AT&T Wireless	United States	21-Dec-95	29-Dec-98	Radio Telephone With Detachable Pager
					-		Method and Apparatus for Indicating to a Wireless
					· · ·		Network the Operational Mode of a Wireless
223.CA	2219366		AT&T Wireless	Canada	04-Dec-96		Communicator

Docket         Application           Number         Number           223.EPC         96944746.5           223.MX         976970           223.US         08/571050           224.CA         2188330	Patent Number	Owner AT&T Wireless	Country Name	Application Date	Grant Date	Title
5 6 7 W	.	Owner AT&T Wireless	Name	Date	Date	Title
976 976 218		AT&T Wireless				The standard to the standard t
		AT&T Wireless		_	•	Method and Apparatus for
		AT&T Wireless	•			Indicating to a Wireless
		AT&T Wireless			•	Network the Operational
		AT&T Wireless	European Patent			Mode of a Wireless
		Al&i Wireless	Convention	04-Dec-96		Communicator
		_				Method and Apparatus for
						Indicating to a Wireless
						Network the Operational
						Mode of a Wireless
			. Colock	04-Dec-96		Communicator
		AT&T Wireless	IMEXICO	2222		Method and Apparatus for
		-				Indicating to a Wireless
						Network the Operational
		-				Mode of a Wireless
			October Chatter	12.Dec.05		Communicator
·		AT&T Wireless	United States	75-090-90		A Method for Selecting a
·						Wireless Communications
		-				Service Provider in a Multi-
						Service Provider
		1	9	24.04.98	24-Apr-01	Environment
	2188330	AT&T Wireless	Canada	21-201-20		A Method for Selecting a
		-				Wireless Communications
				٠		Service Provider in a Multi-
			Fumnean Patent			Service Provider
		-	Convention	12-Dec-96		Environment
224.EPC 96120011		AIGI WIIGIGSS				A Method for Selecting a
						Wireless Communications
				-		Service Provider in a Multi-
						Service Provider
		a To Tallecton	Maxico	96-ce-60	13-Dec-00	Environment
224.MX 966230	200025	AIG I WIIERSS	Salvoin.			A Method for Selecting a
						Wireless Communications
						Service Provider
			201	20.004.07	03-Nov-98	Environment
70176969710	5832367	AT&T Wireless	United States	29-00-97		Method for Selecting a
<u> </u>						Wireless Communications
			•			Service Provider in a Multi-
	•			-		Service Provider
			Haitod States	15-540-98	28-Aug-01	Environment
224.US.C2 09/152927	6282420	AT&I WIREIESS	חווונת סומונים	200.00		A Method for Selecting a
	. •					Wireless Communications
					20 97:0	Service Provider
00/100 00/100	6430396	AT&T Wireless	United States	25-0¢t-99	100-MUN-02	200

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Docket	Application /	Patent	Ç	Country	Application Date	Grant Date	Title
Number	Number	Number	Owner				Environment
							A Method for Selecting a
	-					٠	Wireless Communications
							Service Provider in a Multi-
							Service Provider
		7007	AT&T Wireless	United States	28-May-02	03-Aug-04	Environment
224.US.C2C1(1)	10/154856	1961/19	אומו אוומוסס	-			A Method for Selecting a
							Wireless Communications
					•		Service Provider
					DE May Of		Environment
224 US C2C1(2)	-603471		AT&T Wireless	United States	43-Ividy-0+		Method and Apparatus for
							Storing Activation Data in a
	* .			I Inited States	28-Jul-97	26-Oct-99	Cellular Telephone
225.US.C1	08/901827	5974311	AT&I WIREIESS	Ollifed Ordino			Method and Apparatus for
							Storing Activation Data in a
			AT&T Wirelass	United States	24-Dec-98	18-Nov-03	Cellular Telephone
225.US.C2	09/219872	6650893	Alai Wildidas			•	Method and Apparatus for
							Storing Activation Data in a
•		00007	AT&T Wireless	United States	09-Aug-01	08-Jun-04	Cellular Telephone
225.US.C3	1902793	0/40209	2000				Method and Apparatus for
							Collular Telephone
70 011 300	40/805247		AT&T Wireless	United States	22-Mar-04		
423.03.04	10,000						Method and Apparatus for
	!		AT&T Wirelace	Canada	07-Aug-96	09-Apr-02	Spectrum Analysis
226.CA	2182817	7182812	Section Alexander			;	Method and Apparatus for
		6504175	AT&T Wireless	United States	12-Nov-99	24-Jun-03	Spectrum Arialysis Organically Selection a
226.US.C1	09/439013	2114000					Wireless Network Offering
		,		chando	16-Oct-97		a Desired Service Feature
232.CA	2274517		AT&T WIREIBSS	Callada			Dynamically Mireles
		·		European Patent			Communicator
000	07054673 8		AT&T Wireless	Convention	16-Oct-9/		Dynamically
232.EPC	9/9240/3.0					•	Reconfigurable Wireless
			ATOT MISSION	neuel.	16-Oct-97		Communicator
232.JP	-100135		Alai wireiess	Napar.		`	Dynamically Wireless
				:	90	06-0-4-98	Communicator
01.000	08/644638	5819173	AT&T Wireless	United States	30-ADK-90	200	

Docket Number				Country	Application	Grant	
Vumber	Application	Patent	(	- Comple	Date	Date	Title
	Number	Number	Owner	Name	2		Armrest Cradle for
		•			20 Aug-06	24-Oct-00	Handset
4	2184424	2184424	AT&T Wireless	Canada	oc-Anv-cz		Armrest Cradle for
					44 Co. 08		Electronic Communications Handset
233.IP	239633/1996		AT&T Wireless	Japan	ne-dec-11		Armrest Cradle for
					22.00.498	23-Dec-00	. Electronic Communications Handset
233 MX	965014	200024	AT&T Wireless	Mexico	26-001-30		Armrest Cradle for
Viero.				3	90 00	02-Feb-99	Electronic Communications Handset
233.US	08/550130	5865503	AT&T Wireless	United States	30-06-33		Customer Activation
					42 Mov 06		System for Centural Network
235.CA	2190045		AT&T Wireless	Canada	06-404-21		Customer Activation
	·.				05.Dec.96	24-Sep-03	System for Candral Network
235.DE	96119565.8	69630100.8	AT&T Wireless	Germany	2000-00		Customer Activation
				European Patent	90-00-90	24-Sep-03	System for Celiular Network
235 FPC	96119565.8-2412	778716	AT&T Wireless	Convention	200000		Customer Activation
				European Patent	90-09		System for Cellular Network
235 FPC D1	3016354.7		AT&T Wireless	Convention	ne-part-cn		Customer Activation
100				-			System for Cellular
		. 975055	AT&T Wireless	Great Britain	05-Dec-96	24-Sep-03	Network Customer Activation
235.GB	96119565.8	1/8/10	35.0				System for Cellular
				Long Kong	05-Dec-96		Network
235.HK	4103133.8		AT&T Wireless	RIION BIIOL		_	Customer Activation
					90-200	•	Network
Ç.	324R9E/199E		AT&T Wireless	Japan	20000		Customer Activation
70.057	2000				9		System for Cellular Network
235.JP.D1	2003-170351		AT&T Wireless	Japan	10-2011-02		Customer Activation
				Size of the second	28-Nov-96	07~Jan-04	Network
235.MX	965918	218372	AT&T WIREIESS	MEXIC			Customer Activation System for Cellular
-		770716	AT&T Wireless	Netherland	05-Dec-96	24-Sep-03	Network

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title	
							Customer Activation	lon
225116 C4	00/610108	RADOAAR	AT&T Wireless	United States	19-Jut-00	03-Dec-02	System for Cellular Network	ā
25.00.00	03/019100	0420443					Customer Activation	ion
							System for Cellular	
235.US.C1(1)	10/226755	6725033	AT&T Wireless	United States	23-Aug-02	20-Apr-04	Network	
							Customer Activation	<u>.</u>
		١.		Cotod Challed	24 110.04		System for Cellular	<u>a</u>
235.US.C1(2)	10/814574		A I & I WIFBIESS	Onlied States	o I-Mar-04		Network Coding Collina	Cintom
236.CA	2231452	2231452	AT&T Wireless	Canada	96-Sep-96	25-Jun-02	Cordiess Cellular System Base Station	System
70,00			ATOT Window	Canada	96-Sep-96		Cordless Cellular System Base Station	r System
0.000	222223						Cordless Cellular System	r System
236.CA.D2	2335283		AT&T Wireless	Canada	06-Sep-96		Base Station	
236.CA.D3	2335275		AT&T Wireless	Canada	96-Sep-96		Cordless Cellular System Base Station	r System
				European Patent	30 0 00		Cordless Cellular System	r System
236.EPC	96930783.4		AT&T Wireless	Convention	on-dec-on		Dase Station	
236.EPC.D1	2077853.6		AT&T Wireless	European Patent Convention	96-Sep-96		Cordless Cellular System Base Station	r System
			A T O T 14 (socione	European Patent	96-08-36		Cordless Cellular System Base Station	r System
236.EPC.D2	2077852.8		AIGI WIEGES		22 422 22		Cordless Cellular System	ır System
236.HK1	3103379.2		AT&T Wireless	Hong Kong	13-May-03		Base Station	
236 HK2	3103378 3		AT&T Wireless	Hong Kong	13-May-03		Cordless Cellular System	r System
3			AT&T Wireless	lanan	96-Sep-96		Cordless Cellular System Base Station	ır System
Z30.JF	9-212731						Cordless Cellular System	r System
236.MX	981829	202590	AT&T Wireless	Mexico	06-Sep-96	22-Jun-01	Base Station	Conton
226 116	260034	5675629	AT&T Wireless	United States	08-Sep-95	07-Oct-97	Base Station	a oystem
236.US D2/11	10/279866	6681118	AT&T Wireless	United States	25-Oct-02	20-Jan-04	Cordless Celiular System	ır System
236 US D3(1)	10/235039	6611692	AT&T Wireless	United States	04-Sep-02	26-Aug-03	Cordless Cellular System	ar System
236 US D3(2)	10/647105		AT&T Wireless	United States	22-Aug-03		Cordless Cellular System	ar System
(=)	2264037	2261027	AT&T Wireless	Canada	11-Jul-97	18-Nov-03	Method for Allocating a Mobile Station TMSI	Saung a
73.62 73.62	7701371	1461961						

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Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number		European Patent	11-lul-97		Method for Allocating a Mobile Station, TMSI
239.EPC	97934931.3		AT&1 WIREIESS	COLINGIA			Method for Allocating a
		001	AT&T Wireless	Mexico	11-Jul-97	18-Dec-01	Mobile Station TMSI
239.MX	. 096066	2037.00		,	46 hd 07	11-Sep-98	Mobile Station TMSI
239.TW	86109994	94590	AT&T Wireless	ıaman	in i		Method for Allocating a
			ATRIMireless	United States	29-Jul-96	21-Mar-00	Mobile Station TMSI
239.US	08/688626	6039624	AIGI WIEGOS				Method and Apparatus for Wireless Communication
	. !		ATRT Mireface	Australia	19-Dec-96	16-Mar-00	System Organization
243.AU	75470/96	000017	Algi Wildias				Method and Apparatus for
				111111111111111111111111111111111111111	17-Dec-96		System Organization
243.BR	9606032		A I & I WIFEIESS	Diazi			Method and Apparatus for
				7	10 May 06	24-Oct-00	System Organization
243.CA	2190552	2190552	AT&T Wireless	Canada	10-1404-20		Method and Apparatus for
						,	Wireless Communication
	-	2200052	AT&T Wireless	Great Britain	09-Dec-96	08-Mar-00	System Organization
243.GB	9625564.1	200002					Wireless Communication
				ָּיִרָּיִ מָּיִרְיִּיִּ	22-Nov-96		System Organization
243.IN	2096/MAS/96		AI&I WITEIESS	PINI			Method and Apparatus for
	,				•	_	Wireless Communication
!			AT&T Wireless	Japan	19-Dec-96		Matted and Apparatus for
243.JP	338822						Wireless Communication
•				I Inited States	21-Dec-95	02-Mar-99	System Organization
243.US	08/575974	5878328	AI&I Wireless				Concurrent Ringing on Multiple Network
				Tohicon	24~lun-97	05-Jul-99	Telephones
246.TW	86108830	101482	AT&I WIREIESS	- alwais			Concurrent Ringing on Multiple Network
			:	1 Inited Chates	27. lim-96	11-Jun-02	Telephones
246.US	08/669805	6405041	AT&T Wireless	Office States			Concurrent Ringing on
				Classical Chates	15-Anr-02	24~Jun-03	Telephones
246.US.C1	10/123466	6584317	AT&T WIRBIESS	Ollifed Oldres			Packet Data Transmission
		00000	AT&T Wireless	Canada	22-Nov-96	14-Dec-99	Assignment
247.CA	2238552	700077	5				

Application	Patent Number	Owner	Country	Application Date	Grant Date	Title	
6030744 3		AT&T Wireless	European Patent Convention	22-Nov-96		Packet Data Transmission Using Dynamic Channel Assignment	ssion
84220	205488	AT&T Wireless	Mexico	22-Nov-96	13-Dec-01	Packet Data Transm Using Dynamic Cha Assignment	Ission
CT7 1806/10742		AT&T Wireless	Patent Cooperation Treaty	22-Nov-96		Packet Data Transm Using Dynamic Cha Assignment	Ission
8/563846	5790551	ATAT Wireless	United States	28-Nov-95	04-Aug-98	Packet Data Transm Using Dynamic Cha Assignment	ission
						Method and Appara Providing	us for
				,	¥	Telecommunication Services Based on Subscriber Profile U	pdated
184115		AT&T Wireless	Brazil	19-May-97		by a Personal Inform	nation
				• .		Method and Appara Providing	us for
						Services Based on Subscriber Profile L	pdated
9228169	2228169	AT&T Wireless	Canada	19-May-97	18-Feb-03	by a Personal mion Manager	anou
						Method and Appara Providing Telecommunication Services Based on	tus for
7002600 2		AT&T Wireless	European Patent Convention	19-May-97		by a Personal Informace	nation
01 9£0.382.5						Method and Appara Providing Telecommunication Services Based on Subscriber Profile U	tus for a ipdated
10-500600		AT&T Wireless	Japan	19-May-97		by a Personal Information Manager	
		TOTA COLONIA	Movino	19-Mav-97	09-Jun-03	Method and Appara Providing Telecommunication Services Based on	tus for
980829	214649	Alaı wireless	Mexico	in thinks			
	96939741.3 984220 08/563816 08/563816 97926592.3 97926592.3	84220 205488 CT/US96/18743 CT/US96/18743 S4115 84115 7926592.3 10-500600 214649	96/18743 205488 16 5790551 92.3 2214649	11.3 AT&T Wireless C 205488 AT&T Wireless N AT&T Wireless C 2228169 AT&T Wireless N AT&T Wirel	1.3   AT&T Wireless   Europeari Patent   205488   AT&T Wireless   Mexico   2	European Patent   European Patent   22-Nov-96   1	1.3   AT&T Wireless   European Patent   22-Nov-96   13-Dec-01   Patent   Cooperation   22-Nov-96   13-Dec-01   Patent   Cooperation   22-Nov-96   13-Dec-01   Patent   Cooperation   22-Nov-96   13-Dec-01   Patent   Cooperation   22-Nov-96   13-Dec-01   Patent   Patent   Cooperation   19-May-97   18-Feb-03   Patent   Patent

Number         Number         Number           248.NO         19980461         Augusta 1998		AT&T Wireless	Norway Patent Conneration	19-May-97		Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
19980461 F PCT/US97/08455		AT&T Wireless	Norway Patent Conneration	19-May-97		Method and Apparatus for Providing
19980461 F PCT/US97/08455		AT&T Wireless	Norway Patent Conneration	19-May-97		Providing Telecommunication
19980461 F PCT/US97/08455		AT&T Wireless	Norway Patent Conneration	19-May-97		
19980461 F PCT/US97/08455		AT&T Wireless	Norway Patent Conneration	19-May-97		
19980461 F PCT/US97/08455		AT&T Wireless	Norway Patent Conneration	19-May-97		Services Based on a
19980461 F PCT/US97/08455		AT&T Wireless	Norway Patent Conneration	19-May-97		by a Personal Information
19980461 F PCT/US97/08455		A l a l wieddo	Patent Conneration			Manager
PCT/US97/08455			Patent Conneration			Method and Apparatus for
PCT/US97/08455			Patent Conneration			Providing
PCT/US97/08455			Patent Conneration			Telecommunication
PCT/US97/08455			Conneration			Services Based on a
PCT/US97/08455						by a Personal Information
PCT/US97/08455			Troot	19-May-97		Manager
86107435		AI&I WIREIESS	11001			Method and Apparatus for
86107435						Providing
86107435						Telecommunication
86107435			,			Services based on a
86107435						by a Personal Information
86107435			Takwan	30-Mav-97	18-Jun-98	Manager
	3010	AT&I WIRBIBS	Idiwali			Method and Apparatus for
						Providing
						Telecommunication
-		-		•		Services Based on a current
	•			•		by a Personal Information
-			i faitad Chates	04-110-96	03-Aug-99	Manager
248.US 888849 593	5933778	AT&I WIREIESS	Olilled States			Method and Apparatus for
						Maintaining Channel
						Priority in a Multiple
						Wireless Communication
٠,		AT&T Wireless	Brazil	11~Jun-97		System Chambing for
250.BR 9706555						Method and Apparatus for
			•			Drouty in a Multiple
						Wireless Communication
			-	11_hm-97	22-Jan-02	System Environment

						1	
Docket	Application	Patent	, de	Country	Application Date	Grant Date	Title
Number	Number	Number	OWIE				Method and Apparatus for
		. "					Priority in a Multiple
,							Wireless Communication
				Movico	11-Jun-97	06-Jul-01	System Environment
250.MX	981511	202991	AT&I WIREIESS	Maxico			Method and Apparatus for
						•	Maintaining Channel
							Priority in a Multiple
						٠.	Wireless Communication
						·	System Environment
-	-						Method and Apparatus for
	÷						Maintaining Channel
							Priority in a Muluple
	000000	06577	AT&T Wireless	Taiwan	23-Jun-97	16-Dec-98	Wireless
250.TW	86108843	1,000					Method and Apparatus to
	-						Descrity in a Multiple
							Wireless Communication
					- (	42,00	System Fovironment
01.00	000673000	506642	AT&T Wireless	United States	28-Jun-96	12-001-88	A Mothod for Selecting a
220.02	00/01/2030	10000					Profession Wireless
							Comminications Service
							Provider in a Multi-Service
		•		2	21-Oct-96	01-May-01	Provider Environment
252.CA	2188329	2188329	AT&T Wireless	Callada			A Method for Selecting a
							Preferable Wireless
							Communications Service
						الأسبيت	Provider in a Multi-Service
				Cormany	12-Dec-96	21-May-03	Provider Environment
252.DE	96120010.2	69628270	AT&I WIREIESS	Collinging			A Method for Selecting a
				-			Preferable Wireless
							Communications Service
				European Patent			Provider in a Muiti-Service
	•	_		Convention	12-Dec-96	21-May-03	Provider Environment
252.EPC	96120010.2	779753	AT&T Wireless	COLINGIA			A Method for Selecting a
						;	Preferable Wireless
	• •	:					Communications Service
	<u>.                                      </u>			Furnnean Patent			Provider in a Multi-Service
			0001001101	Convention	12-Dec-96		Provider Environment
252.EPC.D1	3011438.3		Ala Wireless				A Method for Selecting a
				٠.			Preferable Wireless
							Communications Service
•					90 00	21-May-03	Provider Environment
252 ER	96120010.2	779753	AT&T Wireless	France	12-060-90	20 (200)	
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Docket	Application	Patent		Country	Application	Grant	Title	
Number	Number	Number	Owner	Name	2352		A Method for Selecting a	Γ.
		-					Preferable Wireless	
					-		Communications service	
							Provider in a Multi-Service	
			ATOT Mississe	Great Britain	12-Dec-96	21-May-03	Provider Environment	T
252.GB	96120010.2	779753	AIGI WIIGIGSS				A Method for Selecting a	
		•	-	_			Preferable Wireless	
							Communications Service	_
							Provider in a Multi-Service	ø,
	•	-		Movino	09-Dec-96		Provider Environment	1
252.MX	966232		AI&I WIREESS	MICHIGA			A Method for Selecting a	_
							Preferable Wireless	
							Communications Service	
							Provider in a Multi-Service	<u> </u>
				1 Inited States	12.Dec-95	09-Jul-02	Provider Environment	
252.US	08/570904	6418318	A I & I WITEIESS	Office Oraco			A Method for Selecting a	
							Preferable Wireless	
							Communications Service	_
							Provider in a Multi-Service	
	<i>;</i>		•		00 1701	24.010.04	Provider Environment	
10 01	40/000044	6782259	AT&T Wireless	United States	19-Mar-02	TO-ROULE	A Mothod for Soloction a	
10.60.262	10083344	2010					Descend of Selecting a	
							Commissions Service	
							Provider to a Multi-Service	. 8
				TOTAL TOTAL	PO WOLL DO		Provider Environment	
252 US C1(1)	mailed		AT&T Wireless	United States	ZO-INIGI OF		A Method for Selecting a	_
202:00:01:							Wireless Service Provider	<b>5</b>
		-	_				In a Multi-Service Provider	Jer Jer
							Environment Using a	_
				Change	21-Oct-96	06-Aug-02	Geographic Database	
253.CA	2188333	2188333	AT&I WIREIESS	Callada			Method for Selecting a	
							Wireless Service Provider	<u>.</u>
							In a Multi-Service Provider	 Je
				-			Environment Using A	
				Cormony	12-Dec-96	16-Jun-04	Geographic Database	
253.DE	69632713.908	779752	AI&I WIREIESS	Cellilain			Method for Selecting a	
							Wireless Service Provider	<u> </u>
							in a Multi-Service Provider	 Je
			-	European Patent			Environment Using A	
			ATOT WILLIAM	Convention	12-Dec-96	16-Jun-04	Geographic Database	
253.EPC	96120005.2	779752	AIG! WIEBESS				A Method for Selecting a	æ .
		•					Wireless Service Provider	ž Š
	-		-				in a Multi-Service Provider	5
	70000	202750	AT&T Wireless	Mexico	09-Dec-96	02~Jul-01	Environment Calify a	
253.MX	966231	2021.30			i			

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Docket         Application Number         Patent Number         Owner Number         Country Name           158.GB         9706533.8         2311912B         AT&T Wireless         Great Britain           258.JP         717MAS/97         AT&T Wireless         India           258.JP         85443/1997         AT&T Wireless         Japan           258.JP         85443/1997         AT&T Wireless         United States           258.JP         1992490         AT&T Wireless         United States           260.GA         220952B         AT&T Wireless         Canada           260.CA         220952B         AT&T Wireless         Canada           260.LP         9730454Z         AT&T Wireless         Lerropean Paten	, chaire	Actionstica	Grant	
D2		Application	Date	Title
9706533.8   2311912B   AT&T Wireless   OB/626214   G496700   AT&T Wireless   U   OB/626214   G496700   AT&T Wireless   U   OB/626214   G496700   AT&T Wireless   U   OB/62628   AT&T Wireless   OB/62628   AT&T Wireless   OB/62628   AT&T Wireless   OB/62628   AT&T Wireless   OB/62614   OB/62628   AT&T Wireless   OB/62614   OB/62628   AT&T Wireless   OB/626214   OB/	-			Method for Determining
9706533.8   2311912B   AT&T Wireless   G				Organization Parameters in a Wireless Communication
9706533.8 2311912B AT&I Wireless OB/06523.8 2311912B AT&I Wireless III AT&III AT&IIIIIIII AT&IIIIIII AT&IIIIIIIIII		01-Anr-97	11-Oct-00	System
717A/AS/97   AT&T Wireless   In the second of the second				Method for Determining
T17/MAS/97   AT&T Wireless   If		`.		Organization Parameters in
T17MAS/97   AT&T Wireless   If				a Wireless Communication
AT&T Wireless   AT&T Wireles		04-Apr-97		System.
85443/1997         AT&T Wireless         Junck           85443/1997         6496700         AT&T Wireless         Lunck           8.D2         10/082402         AT&T Wireless         Lunck           8.D2         10/082402         AT&T Wireless         Lunck           A         2209528         AT&T Wireless         Lunck           PC         97304542         AT&T Wireless         AT&T Wireless           D         190864/1997         AT&T Wireless           IX         975114         207169         AT&T Wireless           IO         19973158         AT&T Wireless           W         86109681         95961         AT&T Wireless	1			Method for Determining
B5443/1997   AT&T Wireless   Jobe 22014   B496700   AT&T Wireless   Language 2209528   AT&T Wireless   AT&T				Organization Parameters in
B5443/1997   AT&T Wireless   U				a Wireless Communication
85443/1997   A L& L Wireless   C		04-Apr-97		System
D2         10/082402         AT&T Wireless         I           D2         10/082402         AT&T Wireless         I           C         9730450         AT&T Wireless         I           C         97304542         AT&T Wireless         AT&T Wireless           X         975114         207169         AT&T Wireless           D         19973158         AT&T Wireless           N         86109681         95961         AT&T Wireless	1			Method for Determining
D2         10/082402         AT&T Wireless         I           D2         10/082402         AT&T Wireless         I           C         2209528         AT&T Wireless         I           C         97304542         AT&T Wireless         AT&T Wireless           X         975114         207169         AT&T Wireless           D         19973158         AT&T Wireless           N         86109681         95961         AT&T Wireless			·	Organization Parameters in a Wireless Communication
19973158   1986282		04-Anr-96	17-Dec-02	System
1992490  1992490  2209528  2209528  AT&T Wireless  190864/1997  190864/1997  19973158  AT&T Wireless	†			Method for Determining
10/082402 AT&T Wireless 1992490 AT&T Wireless 2209528 AT&T Wireless 97304542 AT&T Wireless 975114 207169 AT&T Wireless 19973158 AT&T Wireless AT&T Wireless 975114 207169 AT&T Wireless AT&T Wireless 975114 207169 AT&T Wireless AT&T Wireless AT&T Wireless 975114 207169 AT&T Wireless		-		Organization Parameters In
10/082402       AT&T Wireless       1992490         1992490       AT&T Wireless         2209528       AT&T Wireless         97304542       AT&T Wireless         190864/1997       AT&T Wireless         19973158       AT&T Wireless         19973158       AT&T Wireless         86109681       95961         AT&T Wireless				a Wireless Communication
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1992490         AT&T Wireless           2209528         2209528         AT&T Wireless           5         97304542         AT&T Wireless           190864/1997         AT&T Wireless           975114         207169         AT&T Wireless           19973158         AT&T Wireless           7         86109681         95961         AT&T Wireless				Automatic Activation of a
1992490       AT&T Wireless         2209528       AT&T Wireless         5       97304542       AT&T Wireless         190864/1997       AT&T Wireless         975114       207169       AT&T Wireless         19973158       AT&T Wireless         7       86109681       95961       AT&T Wireless		15. hd-97		Wireless Device
2209528         AT&T Wireless           5         97304542         AT&T Wireless           190864/1997         AT&T Wireless           975114         207169         AT&T Wireless           19973158         AT&T Wireless           7         86109681         95961         AT&T Wireless		io-ino-oi		Method and System for
2209528 AT&T Wireless  97304542 AT&T Wireless 190864/1997 AT&T Wireless 975114 207169 AT&T Wireless 19973158 AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless				Automatic Activation of a
2209528 AT&T Wireless 190864/1997 AT&T Wireless 190864/1997 207169 AT&T Wireless 19973158 AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless		03-Jul-97	12-Jun-01	Wireless Device
97304542 - AT&T Wireless 190864/1997 - AT&T Wireless 975114 - 207169 - AT&T Wireless 19973158 - AT&T Wireless 86109681 95961 - AT&T Wireless		╀╌		Method and System for
97304542 AT&T Wireless 190864/1997 AT&T Wireless 975114 207169 AT&T Wireless 19973158 AT&T Wireless 86109681 95961 AT&T Wireless	European Patent			Automatic Activation of a
97304542 190864/1997 AT&T Wireless 975114 207169 AT&T Wireless 19973158 AT&T Wireless 86109681 95961 AT&T Wireless		26-Jun-97		Wireless Device
190864/1997 AT&T Wireless 975114 207169 AT&T Wireless 19973158 AT&T Wireless 86109681 95961 AT&T Wireless	$\mid$			Method and System for
190864/1997 975114 207169 AT&T Wireless 19973158 AT&T Wireless 86109681 95961 AT&T Wireless	· ·			Mireless Dovice
1900941397 975114 207169 AT&T Wireless 19973158 AT&T Wireless 86109681 95961 AT&T Wireless		16-701-97		Method and System for
975114 207169 AT&T Wireless 19973158 AT&T Wireless AT&T Wireless 86109681 95961 AT&T Wireless				Automatic Activation of a
975114 207169 AT&T Wireless 19973158 AT&T Wireless 86109681 95961 AT&T Wireless		08-111-97	14-Mar-02	Wireless Device
19973158 AT&T Wireless 86109681 95961 AT&T Wireless	1			Method and System for
19973158 AT&T Wireless 86109681 95961 AT&T Wireless				Automatic Activation of a
19973158 AT&T Wireless 86109681 95961 AT&T Wireless		08-Jul-97		Wireless Device
86109681 95961 AT&T Wireless				Method and System for
86109681 95961 AT&T Wireless			46 Mov.08	Automatic Activation of a Wireless Device
		78-in-30	25-401-01	Method and System for
				Automatic Activation of a
United Sta	AT&T Wireless United States	16-Jul-96	21-Sep-99	Wireless Device

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Title	ging Servic	ging Servic	ging Servic	ging Servic	ging Servic	ging Servic	atimal	ong Multiple Wireless	ons Service	otimal	ong Multiple	Wireless ons Service		otimal Soc Muticle	Wireless	ons Service		otimal	ong monupie Wireless	ons Service		ptimal bod Mulfiole	Wireless	ons Service		otimal	ong Multiple Wireless	ons Service		pparatus fo
Ē	TDMA Messaging Service Microcell	TDMA Messaging Service	TDMA Messaging Service	TDMA Messaging Service	TDMA Messaging Service	TDMA Messaging Service Microcell	Method for Optimal	Selection Among Multiple Providers in a Wireless	Communications Service	Method for Optimal	Selection Among Multiple	Communications Service	Environment	Method for Optimal	Providers in a Wireless	Communications Service	Environment	Method for Optimal	Providers in a Wireless	Communications Service	Environment	Method for Optimal Selection Among Multiple	Providers in a Wireless	Communications Service	Environment	Method for Optimal	Selection Among Multiple Providers in a Wireless	Communications Service	Environment	Method and Apparatus for
<b>Grant</b> Date	01-Jun-04				23-Feb-99				10-Dec-02				07-Jan-03		æ				- 8						18-Sep-98			•	01-Dec-98	01-Jan-02
ation e									·																*			٠.		
Application Date	02-Jun-97	02-Jun-97	02-Jun-97	02-Jun-97	28-Jun-96	09-Oct-98			24-Jun-97				24-Jun-97				24-Jun-97				14-Dec-98				24-Jun-97				28-Jun-96	19-Sep-97
Country Name	Canada	European Patent Convention	Japan	Mexico	United States	United States			Brazil		•		Canada			European Patent	Convention				Japan				Taiwan				United States	Canada
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless			AT&T Wireless				AT&T Wireless				AT&T Wireless				AT&T Wireless				AT&T Wireless				AT&T Wireless	AT&T Wireless
Patent Number	2259329				5875187				9710455-8				2259230							_			•		94720			-	5845198	2215819
Application Number	2259329	97927794.4	10-504109	990211	08/672769	09/168919			9710455-8				2259230				97932326.8				10-504316				86108823			**	08/672907	2215819
Docket Number	262.CA	262.EPC	262.JP	262.MX	262.US	262.US.C1		•	263.BR			-	263.CA				263.EPC			-	263.JP				263.TW				263.US	265.CA

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*0300	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Name	0980		Providing a Caller ID Alias
DOI IN							Method and Apparatus for
				Mexico	06-Oct-97	13-Dec-02	Providing a Caller ID Alias
65.MX	977677	212046	AT&I WIFEIESS			20 00	Method and Apparatus for Providing a Caller ID Alias
	0305000	6343120	AT&T Wireless	United States	08-Oct-96	29-Jail-02	Detection of Fraudulently
65.US	2007953	2315450		7	10-120-98	31-Jan-00	Registered Mobile Phones
WE TW	87100664	107516	AT&T Wireless	ıaıwarı	22.130.61		Detection of Fraudulently
		6062852	AT&T Wireless	United States	24-Jan-97	14-Sep-99	Registered Mobile Profies
266.US	-65865	3900056					Delivering a Volce Mail
		· ·	<del> </del>				Notification to a Subscriber Using Cellular Phone
				1 Inited Chates	10-Apr-97	21-Dec-99	Network
269115	08/838613	6006087	AT&T Wireless	Office States			Method and System for
20001							Delivering a Voice Mail  Notification to a Subscriber
							Using Cellular Phone
					20 1100	09-101-02	Network
70 01	700778007	6418307	AT&T Wireless	United States	66-A0N-67		Method and System for
269.03.01	03/440304						Delivering a Voice Mail
							Notification to a Subschiber
							Using Cellular; Filoria
			acclosust text	United States	15-May-02		Mothed and System for
269.US.C2	10/147408		AI&I WITEIESS				Delivering a Short-
				. (	27-Oct-98		Message Notification
	2251580		AT&T Wireless	Canada	20.00.17		Method and System for
270.CA	2231309			European Patent			Delivering a Short Message Notification
			AT&T Wireless	Convention	25-Nov-98		Method and System for
270.EPC	98122142./						Delivering a Short
				Mexico	30-Nov-98		Message Nomen
270 MX	9810043		AIGI WIIGIGSS				Delivering a Short
Zi Cita				Soloto Policia	02-Dec-97	07-Oct-03	Message Notification
	110061	6630883	AT&T Wireless	United States		<u> </u>	Personal Information
270.US	1,79071-			_			Manager for Opdating a
							Subscriber Profile
			AT&T Wireless	Brazil	19-May-97		Personal Information
272.BR	384268						Manager for Updating a
			AT&T Wireless	Canada	19-May-97	12-Sep-00	Telecommunication
272.CA	2228139	2228139	310				
					i		

Docket	Application	Patent		Country	Application	Grant	Q	
Number	Number	Number	Owner	Name	Date	Date	2011	
							Subscriber Profile	
1							Personal Information	
	-	-					Manager for Updating a	- e 6
				European Patent			Telecommunication	-
272 FPC	97925647 G		AT&T Wireless	Convention	19-May-97		Subscriber Profile	
6,4:1	0.1702010						Personal Information	_
					•	•	Manager for Updating a	e D
			*				Telecommunication	
272 IP D4	2002-258840		AT&T Wireless	Japan	04-Sep-02		Subscriber Profile	
212.01.01	2002-20043						Personal Information	_
							Manager for Updating a	e Gr
							Telecommunication	
272 MX	ORUBAU	205256	AT&T Wireless	Mexico	19-May-97	16-Nov-01	Subscriber Profile	
£1 £.1915	00000	202002					Personal Information	_
				,			Manager for Updating a	e G
							Telecommunication	
272 NO.	19980460	•	AT&T Wireless	Norway	19-May-97		Subscriber Profile	
200	20000						Personal Information	_
				Patent			Manager for Updating	.e gc
*				Cooperation		•	Telecommunication	
272 PCT	PCT//1S97/08510		AT&T Wireless	Treaty	19-May-97		Subscriber Profile	
							Personal Information	_
							Manager for Updating	e g
		-					Telecommunication	
WT 070	96407434	02856	AT&T Wireless	Taiwan	30-May-97	09-Jun-98	Subscriber Profile	
2/2.1W	00107431	35030					Personal Information	_
					٠		Manager for Updating	a gu
							Telecommunication	
. 91166	22777	5003845	AT&T Wireless	United States	04-Jun-96	11-May-99	Subscriber Profile	
212.00		2000					Method for Providing	<u>.</u>
					• .		Remote Emulation of the	
		•				:	Functionality of a Private	HVale
20,00	2 1080080		AT&T Wireless	Brazil	09-Oct-98		Exchange	
281.BK	9003091-3						Method for Providing	<u>.</u>
٠.					^	:	Remote Emulation of the	of the
	•						Functionality of a Private	rivate
2010	2240805	2240895	AT&T Wireless	Canada	09-Oct-98	26-Mar-02	Exchange	
C).	2543033						Method for Providing	9
					•		Kemote Emulation of the	
				European Patent	0	٠.	Functionality of a Private	HVBIE
281.EPC	98308224.9		AT&T Wireless	Convention	08-CG-88		Exclaige	
					•			

Docket						•		
Docker	Annication	Patent		Country	Application	Grant	Title	
Missiphor	Nimber	Number	Owner	Name	Date		Method for Providing	
Mulliper				()			Remote Emulation of the Functionality of a Private	
•				( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	98	22-Nov-02	Exchange	
>	088391	211550	AT&T Wireless	Mexico	20.00-60		Method for Providing	9
ZW1.MX	20000						Remote Emulation of the	2 9
					-		Functionality of a Private	<u> </u>
					09-Oct-98		Exchange	
	40004743		AT&T Wireless	Norway			Method for Providing	
281.NO	19904147		     				Remote Emulation of the	<u>ب</u>
		-					Functionality of a Private	3te
				-	12.Oct.98	26-Feb-01	Exchange	
	07116013	121508	AT&T Wireless	Iawan	25-20-21		Method for Providing	
281.TW	0/1/09/12						Remote Emulation of the	ije P
		-					Functionality of a Private	916
				Linitod Ctates	10-Oct-97	08-May-01	Exchange	
31.100	08/048497	6229885	AT&T Wireless	Officed States			A Method for Allowing a	<u> </u>
281.03	2000						Called Parry to Allocate	ğ
							Call Payment	
				· cpcas	29-Oct-98	23-Apr-02	Responsibility	
. V. COC	2252180	2252180	AT&T Wireless	Callada			A Method for Allowing a	D (
707.707							Called Party to Allocate	9
		-		•			Call Payment	
				Linited States	19-Nov-97	16-Apr-02	Responsibility	
01.000	70777904	6373931	AT&T Wireless	Office States			System for Providing	
282.03	100314554						Power to a Wireless	
		•		=	80,1-00		System	
			AT&T Wireless	Brazil	03-00-60		System for Providing	_
283.BR	9803890.7			-			Power to a Wireless	
					1 09-Oct-98	01-Jan-02	System	
	2240014	2249911	AT&T Wireless	Canada			System for Providing	_
283.CA	1166477			-			Power to a Wireless	
			-	Marriago	09-Oct-98	15-Oct-02	System	;
2	000287	210851	AT&T Wireless	MEXICO			Method and System for	₫,
283.MA	100000						Providing Power to a	70
		<del></del>		United States	10-Oct-97	03-Jul-01	Wireless System	٤
202116	08/948777	6256518	AT&T Wireless	Ollico Como			Method and System for	5,
203.02							Providing Power to a	<b>D</b>
				I Inited States	10-Apr-01		Wireless System	3
283.US.CP1	09/828859		AI&I WILEIESS	- Country			Memod and System to	5 6
							Wireless System	,
			AT&T Wireless	United States	15-Jun-04			
283.US.D1	10/866994							

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Docket	Application	Patent	Cumor	Country	Date	Date	Title
Number	Number	Number	Owilei				Secure Equipment
•				-	03-Oct-97	11-May-00	Automation Using a Personal Base Station
284.TW	86114469	110656	AT&T Wireless	Idiwali			Secure Equipment
				Optobal	09-05-96	23-Feb-99	Automation Using a Personal Base Station
284.US	2088306	5875395	AT&I WIRBIESS	Olined States			Service Transfer to a
A 7 300	2202000	2202000	AT&T Wireless	Canada	07-Apr-97	06-Mar-01	Wireless Telephone
CO.:007	2001017		A T 8 T 18/10/000	Taiwan	05-May-97	25-May-98	Wireless Telephone
285.TW	86105955	92547	Algi Wildiess			00 00	Service Transfer to a
285.US	08/644027	5845207	AT&T Wireless	United States	09-May-96	01-060-80	System and Method for
				Rra7ii	17-Dec-97		Retrieving Messages From a Voice Message System
286.BR	1877348		A1&1 Wireless				System and Method for Betrieving Messages From
			ATRT Mireless	Canada	20-Nov-97	13-Feb-01	a Voice Message System
286.CA	2221660	2221660	Algi Wildios				System and Method for
			200 July 1	European Patent	20-Nov-97		a Voice Message System
286.EPC	97309357.8		A I & I WITEHESS	CONTROL			System and Method for
					10-Dec-97		Retrieving Messages Figure a Voice Message System
286.JP	9-339534		AT&T Wireless	Japan			System and Method for
					18.Dec.07		a Voice Message System
286.MX	9710199		AT&T Wireless	Mexico	6000		System and Method for
					20 000		Retrieving Messages From
286 NO	975816		AT&T Wireless	Norway	10-060-37		System and Method for
					44 Dec 07	11-Aug-00	Retrieving Messages From a Voice Message System
286.TW	86118705	114009	AT&T Wireless	laiwaii	2000-11		System and Method for
						77	Retrieving Messages From
286115	08/766134	6405032	AT&T Wireless	United States	17-Dec-96	11-30II-02	Method and Apparatus for
2000						·-	Providing Partitioned
				;	90		Telecommunication
287.BR	9802303		AT&T Wireless	Brazil	26-Jun-80	-	Method and Apparatus for
							Providing Partitioned Telecommunication Services
287.CA	2239649		AT&T Wireless	Canada	04-Jun-98	_	
						-	

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		troton		<u> </u>	Application	Grant	Title
Docket	Application	Number	Owner	Name	Date		Method and Apparatus for Providing Partitioned
Number				European Patent			Telecommunication Services
•			ATOT Mindless	-+	12-Jun-98		Method and Apparatus for
287.EPC	98304671.5		Algi Wildias		•		Providing Partitioned
					•	•	Services
			AT&T Wireless	Japan	24-Jun-98	<u> </u>	Method and Apparatus for
287.JP	10-176895						Providing Partitioned Telecommunication
					90 0.1 70		Services
× 1	985150		AT&T Wireless	Mexico	76-101-b7		Method and Apparatus for Providing Partitioned
287.MA							Telecommunication
			ATET Wireless	Taiwan	02-Jun-98	07-Jun-00	Method and Apparatus for
287.TW	87108653	111653	Alai Wildias				Providing Partitioned
							Telecommunication
			Societies For	United States	26-Jun-97		Method and Apparatus for
207 115	08/882804		AT&I WIREESS				Providing Partitioned
201.02							Telecommunication
				1 Inited States	10-Jan-02		Services Sustain and Method for
9	10/041500		AT&T Wireless	20000			Automatic Registration
287.US.C1	10/01						Notification for Over-the-Air
				: 1	44_111-97		Activation
	-		AT&T Wireless	Brazil	0.00		System and Meurod to:
288.BR	9703967						Notification for Over-the-Air
					70 000 00	20-Mar-01	Activation
		   2208601	AT&T Wireless	Canada	Z4-20III-01		System and Method 101
288.CA	2208601	7700077					Notification for Over-the-Air
	•		-	European Patent	46 1.4 07		Activation
	,		AT&T Wireless	Convention	16-Inc-C1		System and Method 100
288.EPC	97112096.9						Notification for Over-the-Air
				•	70 1.4 07		Activation
			AT&T Wireless	Japan	18-Inn-GL	-	System and Method for
288.JP	188842/1997						Notification for Over-the-Air
		·	900	Mexico	07-Jul-97	13-Oct-03	Activation
288 MX	975088	216890	AIGI WIIGIGSS				

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Application	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	
2000		ATRT Wireless	, amon	.26-In-80		System and Method for Automatic Registration Notification for Over-the-Air Activation	₹
7,515/ 00676	08465	AT&T Wireless		09-Jul-97	11-Dec-98	System and Method for Automatic Registration Notification for Over-the-Air Activation	¥
670807	6188800	AT&T Wireless	United States	15-Jul-96	13-Feb-01	System and Method for Automatic Registration Notification for Over-the-Air Activation	Air
702163	5282421	AT&T Wireless	United States	30-Oct-00	28-Aug-01	System and Method for Automatic Registration Notification for Over-the-Air Activation	Air
20.70	020272	AT&T Wireless	United States	29-Jun-01		System and Method for Automatic Registration Notification for Over-the-Air Activation	Air
100000		AT&T Wireless	United States	16-Mar-04		System and Method for Automatic Registration Notification for Over-the-Air Activation	Ą
76770		AT&T Wireless	Brazil	03-00:-97		A Method and Apparatus for Over-the-Air Programming of Telecommunication Services	Ø
7827	2215821	AT&T Wireless	Canada	19-Sep-97	03-Jul-01	A Method and Apparatus for Over-the-Air Programming of Telecommunication Services	ø,
117320 8	R3R340	AT&T Wireless	European Patent Convention	07-Oct-97	23-Jun-04	A Method and Apparatus for Over-the-Air Programming of Telecommunication Services	s,
3023872.6		AT&T Wireless	European Patent Convention	16-Jan-98		Method and Apparatus fi Updating Service information Stored in a Mobile Station	5
	9706687 97117320.8	09676     96465       679890     6188899       702163     6282421       896481     6282421       15621     2215821       117320.8     836340       23872.6     83672.6	6188899 6282421 6282421 2215821 8 836340	96465   AT&T Wireless   6188899   AT&T Wireless   6282421   AT&T Wireless   AT&T Wireless	6188899 AT&T Wireless Talwan 0 0 6282421 AT&T Wireless United States 3 AT&T Wireless United States 3 AT&T Wireless United States 3 AT&T Wireless United States 2 AT&T Wireless United States 3 AT&T Wireless Canada European Patent AT&T Wireless Convention 2215821 AT&T Wireless Convention European Patent AT&T Wireless Convention	618899 AT&T Wireless United States 15-Jul-96 15 15 15 15 15 15 15 15 15 15 15 15 15	618899 AT&T Wireless Taiwan 09-Jul-97 11-Dec-98 13-Feb-01

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				Country	Application	Grant	L C
Docket	Application	Patent	2000	Name	Date	Date	Markin Communication
Mumber	Number	Number	OWIE			-	Mobile Collinging St.
MUIIDO							Receiving Intelligent
				atent	20 10 10		Roaming Information
			AT&T Wireless	Convention	07-0d-97		A Method and Apparatus
289.EPC.D2	3026871.8	-					for Over-the-Air
							Programming of
<del>,</del>							Telecommunication
			; ;	nead	08-Oct-97		Services
	275308/1997		AT&T Wireless	Japan		•	A Method and Apparatus
289.JP	21 2030 1031				•		for Over-the-All
		<u> </u>					Telecommunication
						07-0110-02	Services
			AT&T Wireless	Mexico	06-UCI-9/	2000	A Method and Apparatus
289.MX	977676	209518					for Over-the-Air
							Programming of
		·	-				Telecommunication
		<u> </u>			20 000 00		Services
			AT&T Wireless	Norway	30-2ep-97		A Method and Apparatus
289.NO	19974517						for Over-the-Air
			· 			_	Programming of
							Telecommunication
				-	06-Oct-97	02-May-00	Services
:		110299	AT&T Wireless	Laiwan			A Method and Apparatus
289.TW	86114363						for Over-the-Air
							Programming of
							1 elecommunication
				1 Inited States	08-Oct-98	19-Sep-00	Services
9	2001378	6122503	AT&T Wireless	Ollifed Ordina			A Method and Chranes
289.US	2001210		-				Tor Over-the-Air
							Telecommunication
						20 203	Services
		*	ATOT Mirelace	United States	17-Dec-98	70-dac-47	A Method and Apparatus
280115 C1	09/213416	6456843	A   Q   WII EIGSS				for Over-the-Air
203:00:507					•		Programming of
•	·				· ·		Telecommunication
				: :	00 Aug 00		Services
	4		AT&T Wireless	United States	70-Kny-00		Method and Apparatus for
289.US.C1(1)	10/214313						Testing Cellular Services in
							Second Location Remote
							From the First Location
			AT&T Wireless	Brazil	17-00-37		
296.BR	1410934						,

AT&T Wireless						Application	Grant	
Number   Number   Number   Canada   20-Oct-97   11-Sep-01   Fraction   Canada   Ca	Docket	Application	Patent	2	Name	Date	Date	Title
Canada   20-Oct-97   11-Sep-Ot1   Final Sep-Ot1   Final Sep-	Number	Number	Number					Method and Apparatus for
C   2718667   Z18667   AT&T Wireless   Canada   20-Cd-87   11-Sap-01   From the control of the		*						l esting Celiular Services in
C   97117941.1   AT&T Whreless   Canada   20.Oct-97   11-Sap-01   Forest								a First Cocation From a
Canada   C								Second Localida April 1
C   97117941.1   AT&T Wireless   European Patent   16-Oct-97   T   T   T   T   T   T   T   T   T		-000	2240667	AT&T Wireless	Canada	20-Oct-97	11-Sep-01	From the First Location
## European Patent 16-Oct-97    State	296.CA	221866/	7710001					Method and Apparatus for
ST117941.1   AT&T Wireless   Convention   16-Oct-97   F								Testing Cellular Services In
ST117941.1   AT&T Wireless   Convention   16-Oct-97   No.							-	a First Location From a
97117941.1   AT&T Wireless   Convention   16-Oct-97   Foreign					European Patent	•	-	Second Location Remote
97117941.1 97117941.1 97117941.1 9-286313 9-286313 978010 212232 AT&TWIreless 19974723 AT&TWIreless 10974723 AT&TWIreless 10974723 AT&TWIreless 10974723 AT&TWIreless 10974723 AT&TWIreless 10974723 AT&TWIreless 10974723 AT&TWIreless 10974724 AT&TWIreless 10974725 AT&TWIreless 10974726 AT&TWIRELESS 10974727 AT&TWIRELESS 1097477	. 1			AT9T Windows	Convention	16-Oct-97		From the First Location
9-286313 AT&T Wireless Japan 20-0ct-97 8-5 8-5 8-5 8-5 8-5 8-5 8-5 8-5 8-5 8-5	296.EPC	97117941.1		AIGH WHICHOS				Method and Apparatus for
9-286313   AT&T Wireless   Japan   20-Oct-97   F   F   F   F   F   F   F   F   F								Testing Cellular Services in
9-286313			-					a First Location From a
9-286313         AT&T Wireless         Japan         20-Oct-87         In the control of the cont							•	Second Location Remote
9.286.313  9.286.313  1987.4723  1987.4723  1987.4723  1987.4723  1997.4723	•			AT&T Wireless	Japan	20-Oct-97		From the First Location
978010   212232   AT&T Wireless   Mexico   17-Oct-97   18-Dec-02   18-Dec-02   19-Dec-02   19-Dec-02   19-Dec-02   19-Dec-03	296.JP	9-286313		5				Method and Apparatus for
978010         212232         AT&T Wireless         Mexico         17-Oct-97         18-Dec-02         F           19974723         AT&T Wireless         Norway         13-Oct-97         10-Sep-99           1         86115142         103067         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           0         86115142         103067         AT&T Wireless         United States         21-Oct-97         10-Sep-99           0         86114466         103186         AT&T Wireless         Japan         29-Sep-97         23-Feb-99           0         86114466         103186         AT&T Wireless         Taiwan         03-Oct-97         13-Sep-99           0         0.041446         103186         AT&T Wireless         United States         09-Oct-97         27-Jul-99           0         0.041446         103186         AT&T Wireless         United States         09-Oct-97         27-Jul-99           0         0.04797         23-Apr-02         23-Apr-02         23-Apr-02								lesting Celiular Services III
978010         212232         AT&T Wireless         Mexico         17-Oct-97         18-Dec-02         7           19974723         AT&T Wireless         Norway         13-Oct-97         16-Dec-02         1           1         86115142         103067         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           5         08/734707         5875398         AT&T Wireless         United States         21-Oct-96         23-Feb-99           V         86114466         103186         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           S         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-89           S         69/734105         5930362         AT&T Wireless         Laiwan         03-Oct-96         27-Jul-89           S         108/731105         5930362         AT&T Wireless         Laiwan         03-Oct-96         27-Jul-89           S         108/731105         5930362         AT&T Wireless         17-Aman         03-Oct-97         23-Apr-02								a First Location From a
978010         212232         AT&T Wireless         Mexico         17-Oct-97         18-Dec-02           19974723         AT&T Wireless         Norway         13-Oct-97         18-Dec-02           19974723         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           19974723         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           19974723         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           19974723         AT&T Wireless         United States         21-Oct-96         23-Feb-99           1997476         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           1997476         AT&T Wireless         Taiwan         03-Oct-96         27-Jul-99           1997476         AT&T Wireless         Taiwan         03-Oct-96         27-Jul-99           1997476         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless								Second Location Remote
19974723   AT&T Wireless   Norway   13-Oct-97     19974723   AT&T Wireless   Taiwan   15-Oct-97   10-Sep-99     19974723   AT&T Wireless   Taiwan   15-Oct-97   10-Sep-99     19974723   AT&T Wireless   Taiwan   15-Oct-97   10-Sep-99     19974723   AT&T Wireless   Japan   22-Sep-97     19974723   AT&T Wireless   Japan   32-Oct-96   23-Feb-99     19974723   AT&T Wireless   Japan   AT&T Wireless   AT&T Wireless   Taiwan   AT&T Wireless   AT&T W			240000	AT&T Wireless	Mexico	17-Oct-97	18-Dec-02	From the First Location
19974723   AT&T Wireless   Norway   13-Oct-87   10-Sep-99	296.MX	978010	707717					Method and Apparatus for
19974723         AT&T Wireless         Norway         13-Oct-97           66115142         103067         AT&T Wireless         Talwan         15-Oct-97         10-Sep-99           66115142         103067         AT&T Wireless         Talwan         15-Oct-97         10-Sep-99           7         5875398         AT&T Wireless         United States         21-Oct-96         23-Feb-99           8         517588/1998         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           8         86114466         103186         AT&T Wireless         Talwan         03-Oct-97         27-Jul-99           9         08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-99           1         13-kap-99         AT&L Wireless         United States         23-Apr-02								a First I ocation From a
19974723         AT&T Wireless         Norway         13-Oct-97           86115142         103067         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           08/734707         5875398         AT&T Wireless         United States         21-Oct-96         23-Feb-99           v         86114466         103186         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           v         86114466         103186         AT&T Wireless         Taiwan         03-Oct-97         13-Sep-99           s         08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-99           s         08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-99           s         108/731105         5930362         AT&T Wireless         United States         09-Oct-97         23-Apr-02								Second Location Remote
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86115142         103067         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           08/734707         5875398         AT&T Wireless         United States         21-Oct-96         23-Feb-99           v         86114466         103186         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           v         86114466         103186         AT&T Wireless         Taiwan         03-Oct-96         27-Jul-89           s         08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-89	ON.962	19974723		AT&T Wireless	NOIMA	200		Method and Apparatus for
86115142         103067         AT&T Wireless         Taiwan         15-Oct-97         10-Sep-99           08/734707         5675398         AT&T Wireless         United States         21-Oct-96         23-Feb-99           517588/1998         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           86114466         103186         AT&T Wireless         Taiwan         03-Oct-97         13-Sep-99           08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-99           Taiwan         03-Oct-97         23-Apr-02								Testing Cellular Services in
86115142         103067         AT&T Wireless         Talwan         15-Oct-97         10-Sep-99           08/734707         5875398         AT&T Wireless         United States         21-Oct-96         23-Feb-99           517588/1998         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           86114466         103186         AT&T Wireless         Talwan         03-Oct-97         13-Sep-99           08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-99           1 Talwan         03-Oct-97         23-Apr-02								a First Location From a
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517588/1998         AT&T Wireless         Japan         29-Sep-97         13-Sep-99           86114466         103186         AT&T Wireless         Taiwan         03-Oct-97         13-Sep-99           08/731105         5930362         AT&T Wireless         United States         09-Oct-96         27-Jul-99           Taiwan         03-Oct-97         23-Apr-02	290.00							Semenation of
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Docket	Application	Number	Owner	Name	Date		Geographic Address Translation	
Number	Number						Mobile Network	
							Geographic Address	
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		6046615	AT&T Wireless	United States	0-00-0		Registration of Moone	
98.US	1801591	200460				20 000	After Disaster	
				Canada	06-May-97	Z3-Sep-03	Registration of Mobile	
	2257423	2257423	AT&T Wireless				Packet Data Terminals	•
99.CA	2271722						After Disaster	
			AT&T Wireless	Canada	Ub-May-37		Registration of Mobile	
299.CA.D1	2404922			Furnnean Patent			After Disaster	
				Convention	06-May-97		Registration of Mobile	
	0.7020876.B		AT&T Wireless				Packet Data Terminals	
299.EPC	31340100						After Disaster	
			AT&T Wireless	Japan	Up-may-3/		Registration of Mooile	
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				Mexico	06-May-97	06-Way-97	Registration of Mobile	
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299.MX	9810332					16-Aug-99	After Disaster	_
		007007	AT&T Wireless	Taiwan	14-May-97		Registration of Mobile	
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		6774634	AT&T Wireless	United States	26-144-60		Method and Apparation of Ovnamic Negotiation of	
299.US.D1	09/289362	01,1001			-		Protocols	7
			ATAT Wireless	Brazil	15-Jan-98		Method and Apparatus for	
ann BR	9800328-3	\ \-\				10 3000	Protocols	Т
				Canada	15-Jan-98	-S-Iviai	Method and Apparatus for	
ļ		2227086	AT&T WIREIESS		<u></u>	<u>.</u>	Dynamic Negotlation of	
300.CA	777,000				40 000	23-Jul-04	Protocols Protocolis fo	Τ.
		221663	AT&T Wireless	Mexico	-9-3air-90		Method and Apparatus in Dynamic Negotiation of	<del></del>
300.MX	980550	200123				17-Oct-01	Protocols	T
			AT&T Wireless	Taiwan	21-Jan-98		$\vdash$	
300.TW	87100792	NI-134707		1 Inited States	21-Jan-97	26-Sep-00	Negotiation of steel	1
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Docket	Application	Patent	(	Country	Application	Grant	·- <b>i</b>
Number	Number	Number	Owner	Name	Date	Date	Title
			•				Method and Apparatus for Dynamic Negotiation of
300.US.C1	09/634573	6445716	AT&T Wireless	United States	08-Aug-00	03-Sep-02	Protocols
							Method and Apparatus for Dynamic Negotlation of
300.US.C1(1)	-328443		AT&T Wireless	United States	18-Jul-02		Protocols
					•		A Method and Apparatus
301.BR	1426882		AT&T Wireless	Brazil	24-Oct-97		for Message Transmission Verification
							A Method and Apparatus
301.CA	2218211	2218211	AT&T Wireless	Canada	14-Oct-97	06-Feb-01	for Message Transmission Verification
				L			A Method and Apparatus
301.EPC	97118527.7		AT&T Wireless	Convention	24-Oct-97		for Message Transmission
							A Method and Apparatus
301.JP	9-290726	· .	AT&T Wireless	Japan	23-Oct-97		for Message Transmission Verification
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301.MX	978066	206521	AT&T Wireless	Mexico	20-Oct-97	08-Feb-02	Verification
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301.NO	19974771		AT&T Wireless	Norway	15-Oct-97		Verification
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301.TW	86115452	108524	AT&T Wireless	Taiwan	20,004.07	On Mar On	for Message Transmission
		130001	SSID IN INC	LOIMOIL	20-001-31	OD-IBINI-CO	A Method and Apparatus
							for Message Transmission
301.US	08/740277	5940740	AT&T Wireless	United States	25-Oct-96	17-Aug-99	Verification
							A Method and Apparatus
301.US.C1	09/215557	6219542	AT&T Wireless	United States	18-Dec-98	17-Apr-01	Verification
				•			Method and Apparatus for
301.US.C1(1)	09/535340		AT&T Wireless	United States	24-Mar-00		Message Transmission
							Method for Categorization
					-		of Multiple Providers in a
302 BR	9710456-6		ATRT Wireles	Brozil	24. hm.07		Wireless Communications
	97 10430-0		AIGH WILEIGES	019211	76-III0-47		Selvice Cilviloinileili
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302 CA	2250238	2250238	AT&T Wireles	Canada	24. hip.07	25_Mar_03	Wireless Communications
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Souzzogo 8	Number	Number	Number	Owner	Name			Method for Categorization
State   Stat	is Community				Total account			Wireless Communications
97932288.   AT&T Wireless   Japan   24-Jun-97   W W W W W W W W W W W W W W W W W W		*		,	European r arem	24-Jun-97		Service Environment
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990222   9738   AT&T Wireless   Mexico   24-Jun-97   11-Mar-99   W   W   W   W   W   W   W   W   W	302.JP	5042/0/1990	. :				-	of Multiple Providers in a
Se108822   ST38   AT&T Wireless   Talwan   24-Jun-97   114/ar-99   No. 24-Jun-97   114/ar-99   No. 24-Jun-97   114/ar-99   No. 24-Jun-97   No. 24-Jun-98   No. 27-Feb-01   No. 24-Jun-98   No. 27-Feb-01   No. 24-Jun-98   No. 27-Feb-01   N								Service Environment
990222   97738   AT&T Wireless   Talwan   24-Jun-97   11-Mar-99   9   9   9   9   9   9   9   9   9				AT&T Wireless	Mexico	24-Jun-9/		Method for Categorization
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R6108822   91738   S19532   AT&T Wireless   United States   14-Jun-96   27-Feb-01   Volume   S19538   S19532   AT&T Wireless   United States   14-Jun-99   C1-Feb-01   Volume   S19538   C10099992   C2   AT&T Wireless   United States   C1-Sep-04   C2   C1009992   AT&T Wireless   C1009993   C1-Sep-04   C2   C1009993   C2   AT&T Wireless   C1009993   C2   C1-Sep-04   C1-Sep-04				AT&T Wireless	Taiwan	24-Jun-97	11-Mar-99	Method for Categorization
C1   1066388   6195532   AT&T Wireless   United States   28-Jun-96   27-Feb-01   No. 1066388   6377787   AT&T Wireless   United States   14-Jun-99   23-Apr-02   Sampled   AT&T Wireless   United States   15-Mar-02   Sampled   AT&T Wireless   Canada   12-Jun-98   Sap-Mar-04   AT&T Wireless   Canada   12-Jun-98   Sap-Mar-04   AT&T Wireless   Canada   12-Jun-98   Sap-Mar-04   AT&T Wireless   Convention   12-Jun-98   AT&T Wireless   Convention   12-Jun-98   AT&T Wireless   AT&	302.TW	86108822	97738	5		•		of Multiple Providers in a
C2   10/039992   C294432   AT&T Wireless   United States   14-Jun-99   C3-Apr-02   C2   10/039992   AT&T Wireless   United States   14-Jun-99   C3-Apr-02   C2   10/039992   AT&T Wireless   United States   19-Mar-02   C3-Apr-02   C3   Maried   C44185   AT&T Wireless   Canada   C2-Jun-98   C3-Apr-04   C44185   AT&T Wireless   Canada   C2-Jun-98   C3-Mar-04   C3-Mar-04   C44185   AT&T Wireless   Canada   C3-Jun-98   C3-Mar-04   C3-Mar-								Wireless Communications
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10/099992   AT&T Wireless   United States   12-Sep-04						10 Mar.02		Service Environment
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mailed         AT&T Wireless         United States         27-Sep-04           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04           2444185         AT&T Wireless         Canada         12-Jun-98         ACALT Wireless         Convention         12-Jun-98           98929031.7         AT&T Wireless         Convention         12-Jun-98         AT&L Wireless         AT&T Wireless <td>302.US.C2</td> <td>766660/01</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>of Multiple Providers In a wireless Communications</td>	302.US.C2	766660/01				•		of Multiple Providers In a wireless Communications
malled         AT&T Wireless         United States         27-Sep-04           2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04         II           2444185         AT&T Wireless         Canada         12-Jun-98         II         II           98929031.7         AT&T Wireless         Convention         12-Jun-98         II         II           9811892         AT&T Wireless         Mexico         12-Jun-98         II         II							_	Service Environment
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2294432         AT&T Wireless         Canada         12-Jun-98         30-Mar-04         III           D1         2444185         AT&T Wireless         Canada         12-Jun-98         Proposition         In-Jun-98         In-Jun-	302.US.C3	mailed						Roaming Using Network
D1   244185   AT&T Wireless   Canada   12-Jun-98   I   Canada   12-Jun-98   I   Canada   I   C			,	a TOT Wilespee	Canada	12-Jun-98	30-Mar-04	Method of Intelligent
D1         2444185         AT&T Wireless         Canada         12-Jun-98           C         98929031.7         AT&T Wireless         Convention         12-Jun-98           AT&T Wireless         Mexico         12-Jun-98	303.CA	2294432	2294432	Algi vilgios				Roaming Using Network
2444185 Canada 12-Jun-98  European Patent 12-Jun-98  9991892 AT&T Wireless Mexico 12-Jun-88				*	•	42 150		Information
2444163 European Patent 12-Jun-98		207777		AT&T Wireless	Canada	14-3011-30		Method of Intelligent
9991892 AT&T Wireless Convention 12-Jun-98 AT&T Wireless Mexico 12-Jun-98	303.CA.D1	244163			Dated account			Roaming Using Network
98929031.7 AT&I Wireless Commons. 12-Jun-98 AT&I Wireless Mexico 12-Jun-98					Convention			Information
9911892 AT&T Wireless Mexico 12-Jun-98	303.EPC	98929031.7		AT&I WITEIESS	3			Roaming Using Network
9911892 Mexico				• .		12_fim-98		Information
	202 MX	9911892		AT&T Wireless	Mexico			

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title	
303.TW	87110178	110131	AT&T Wireless	Taiwan	24-Jun-98	26-Aor-00	Method of Intelligent Roaming Using Network Information	it work
303.US	08/883111	6223042	AT&T Wireless	United States	26-Jun-97	24-Apr-01	Method of Intelligent Roaming Using Network Information	it work
306.BR	9800525-1		AT&T Wireless	Brazil	30-Jan-98		Method and Apparatus for Serving Cell Code Assignment	atus for
306.CA	2227138	2227138	AT&T Wireless	Canada	15-Jan-98	16-Sep-03	Method and Apparatus for Serving Cell Code Assignment	stus for
306.MX	980722		AT&T Wireless	Mexico	26-Jan-98		Method and Apparatus for Serving Cell Code Assignment	stus for
306.TW	87100967	111208	AT&T Wireless	Taiwan	23-Mar-98	29-May-00	Method and Apparatus for Serving Cell Code Assignment	itus for
306.US	1472506	6144851	AT&T Wireless	United States	31-Jan-97	07-Nov-00	Method and Apparatus for Serving Cell Gode Assignment	itus for
307.BR	1892355		AT&T Wireless	Brazil	18-Dec-97		Method of Mutual Authentication for Secure Wireless Service Provision	ecure
307.CA	2221665	2221665	AT&T Wireless	Canada	20-Nov-97	07-Jan-03	Method of Mutual Authentication for Secure Wireless Service Provision	ecure
307.MX	9710347	193809	AT&T Wireless	Mexico	18-Dec-97	22-Oct-99	Method of Mutual Authentication for Secure Wireless Service Provision	ecure
307.TW	86119522	110272	AT&T Wireless	Taiwan	22-Dec-97	01-May-00	Method of Mutual Authentication for Secure Wireless Service Provision	ecure
307.US	08/777341	5875394	AT&T Wireless	United States	27-Dec-96	23-Feb-99	Method of Multual Authentication for Secure Wireless Service Provision	ecure
308.BR	9706413-0		AT&T Wireless	Brazil	18-Dec-97		Method for Controlling Channel Re-Selection	gr co
308.CA	2221820	2221820	AT&T Wireless	Canada	20-Nov-97	30-Jul-02	Method for Controlling Channel Re-Selection	uo
308.MX	9710341	199915	AT&T Wireless	Mexico	18-Dec-97	30-Nov-00	Method for Controlling Channel Re-Selection	gu co
308.TW	86119184	125235	AT&T Wireless	Talwan	18-Dec-97	08-May-01	Method for Controlling Channel Re-Selection	<b>5</b> 5
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Docket Number         Application Number           308.US         08/72829         5/409306760         6/408720 <th>Patent Number 5995834 6501951</th> <th>Owner AT&amp;T Wireless AT&amp;T Wireless AT&amp;T Wireless AT&amp;T Wireless</th> <th>Country Name United States Cunited States</th> <th>Date 24-Dec-96</th> <th>Date</th> <th>Title Method for Controlling</th>	Patent Number 5995834 6501951	Owner AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless	Country Name United States Cunited States	Date 24-Dec-96	Date	Title Method for Controlling
C1 (1) 10/206963 6 C1 (2) malled 1892840 1892840 CC 97309352.9 CC 97309352.9	5995834 6501951	AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless		14-Dec-96	00	Method for Controlling
C1 09/306760 6 C1 09/306760 6 C1(1) 10/206963 C1(2) malled 1892840 2221854 2221854 0 97309352.9	5995834	AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless		4-Dec-96	-	
C1 09/306760 6 C1(1) 10/206963 C1(2) malled 1892840 2221854 C 97309352.9 C 97309352.9	6501951	AT&T Wireless AT&T Wireless AT&T Wireless			30-Nov-99	Method for Controlling
1(1) 10/206963 1(2) malled 1892840 2221854 97309352.9	6501951	AT&T Wireless AT&T Wireless AT&T Wireless		) PO-VEM-70	31-Dec-02	Channel Re-Selection
1(2) mailed 1(2) mailed 1892840 2221854 97309352.9		AT&T Wireless AT&T Wireless		See Control		Method for Controlling
10/206963 mailed 1892840 2221854 97309352.9		AT&T Wireless				Channel Re-Selection
10/206963 mailed 1892840 2221854 97309352.9		AT&T Wireless				From a Selected Control
10/206963 mailed 1892840 2221854 97309352.9		AT&T Wireless				Channel to an Alternative
10/206963 mailed 1892840 2221854 97309352.9		AT&T Wireless		30-Jul-02		Control Channel
mailed 1892840 2221854 97309352.9 9-350412		AT&T Wireless	_			Method for Controlling
mailed 1892840 2221854 97309352.9 9-350412		Algi Wiedo	United States	20-Aug-04		Channel Re-Selection
1892840 2221854 97309352.9 9-350412			T			Method and Apparatus for
1892840 2221854 C 97309352.9						Alerting a Station in One
1892840 2221854 C 97309352.9		_			٠	Network of a Requested
1892840 2221854 C 97309352.9	•					Communication From a
1892840 2221854 C 97309352.9		A TOT LAST AND ADDRESS OF A	Brazil	18-Dec-97		Second Network
2221854 C 97309352.9		A I & I WITEIESS				Method and Apparatus for
2221854 C 97309352.9 9-350412						Alerting a Station in One
2221854 C 97309352.9 9-350412			•			Network of a Requested
2221854 C 97309352.9 9-350412						Communication From a
2221854 C 97309352.9 9-350412		:	Consolo	20-Nov-97	18-Nov-03	Second Network
U	2221854	AT&T Wireless	Callada			Method and Apparatus for
						Alerting a Station in One
						Network of a Requested
			European Patent			Communication From a
			Europaan avon	20.Mov.07		Second Network
		AT&T Wireless	Convention	10-A0NI-07		Method and Apparatus for
						Alerting a Station in One
		•				Network of a Requested
						Communication From a
				10.Dec-97		Second Network
	_	AT&T Wireless	Japan	2000		Method and Apparatus for
						Alerting a Station in One
						Network of a Requested
						- Communication From a
				18-Dec-97	07-Nov-03	Second Network
22 MY 6710338	217407	AT&T Wireless	Mexico	2000		Method and Apparatus for
			-			Alerting a Station in One
						Network of alkequested
				111	-	Communication From 8
		ATOT Missione	Norway	17-Dec-97		Second Network
312.NO 19975936		AIGI Wireisa			ı	

Docket	Application	Patent		Country	Application	Grant	i
Number	Number	Number	Owner	Name	Date	Date	Title
						•	Method and Apparatus for
		3			-		Alering a Station in One
					-		Communication From a
312 TW	86119517	104929	AT&T Wireless	Taiwan	22-Dec-97	04-Dec-99	Second Network
							Method and Apparatus for
							Alerting a Station in One
		-			•		Network of a Requested
			-				Communication From a
312.US	08/777336	6230009	AT&T Wireless	United States	.27-Dec-96	08-May-01	Second Network
							Method and Apparatus for
	•				- <del>-</del>		Alerting a Station in One
							Network of a Requested
			•				Communication From a
312.US.C1	09/740181	6459897	AT&T Wireless	United States	18-Dec-00	01-Oct-02	Second Network
							Method and Apparatus for
							Alerting a Station in One
							Network of a Requested
					•		Communication From a
312.US.C1(1)	10/241432		AT&T Wireless	United States	12-Sep-02		Second Network
					-		Method of Wireless
313.BR	1893450		AT&T Wireless	Brazil	18-Dec-97		Retrieval of Information
							Method of Wireless
313.CA	2221666		AT&T Wireless	Canada	20-Nov-97		Retrieval of Information
		-		European Patent			Method of Wireless
343 FPC	97121958.9		AT&T Wireless	Convention	12-Dec-97		Retrieval of Information
					-		Method of Wireless
313.JP	9-351020		AT&T Wireless	Japan	19-Dec-97		Retrieval of Information
							Method of Wireless
313.MX	9710240		AT&T Wireless	Mexico	17-Dec-97		Mathod of Wireless
		-	A T 0 T 18/12/2000	Norway.	17-Dec-97		Retrieval of Information
313.NO	18975935	· · · · · · · · · · · · · · · · · · ·	AIGHESS	Campa.			Method of Wireless
313 TW	86110180	105649	AT&T Wireless	Taiwan	18-Dec-97	17-Dec-99	Retrieval of Information
313.1W	00181100	20001					Method of Wireless
313.US	08/777983	6493430	AT&T Wireless	United States	24-Dec-96	10-Dec-02	Retrieval of Information
	4000		AT9T Mindoss	1 Inited States	09-fun-03		Retrieval of Information
313.US.R1	10/419098		Ala: Witeless	COMPO DOMINO			Method and Apparatus for
							Data Network Call
318.BR	1767500		AT&T Wireless	Brazil	03-Dec-97		Processing

				Country	Application	Grant		
Docket	Application	Patent	, carried	Name	Date	Date	11115 11115d and Annaratus for	
Number	Number	Numper	Owner				Data Network Call	
			AT&T Wireless	Canada	10-Nov-97	01-Jan-02	Processing Method and Apparatus for	
318.CA	2220707	2220707		Curpopon Patent			Data Network Call	
			A TOT Mireless		12-Nov-97		Processing Method and Apparatus for	
318.EPC	97309093.9		AIGI WIIGIGSS				Data Network Call	
				nedel	05-Dec-97		Processing America for	
318.JP	2306751		AT&T Wireless	Japan			Method and Apparatus 13.  Data Network Call	
				0::01	02-Dec-97	26-Sep-01	Processing	
318 MX	979392	204379	AT&T Wireless	Mexico			Method and Apparatus to	
					04 Dec-07		Processing	
012	19975612		AT&T Wireless	Norway	200-10		Method and Apparatus for	
310.100					000	04-Mar-02	Processing	
	06118162	143991	AT&T Wireless	Taiwan	03-Dec-97		Method and Apparatus for	
318.1W	20101100					0	Data Network Call	
			AT&T Wireless	United States	09-Dec-96	12-Sep-00	Method and Apparatus for	
318.US	08/762550	6118778	5				Data Network Call	
				11-ited Chates	30-Nov-99	17-Aug-04	Processing	
70.00	00/451401	6778527	AT&T Wireless	United States			A Method for Time-	
318.03.01	01.01.00						Stamping a Message	
							Based on a Nechoem	
				Brazil	27-May-98		A Mothod for Time-	_
00 000	9801486-2		AIGI WIREISS				Complete Message	
332.01							Based on a Recipient	
					00 77 60		Location	_
			AT&T Wireless	Canada	2/-Mpr-90	 	Method for Time-Stamping	_
332.CA	2235979			tanton .			a Message Based on a	
				European Paterin	22.Mav.98		Recipient Location	_
			AT&T Wireless	Convention	25-WG/ 200		A Method for Time-	_
332.EPC	98304082.5						Stamping a Message	· 
							Based on a Recipient	_
					- 1 27.Mav.98		Location	· •
	10-145288		AT&T Wireless	Japan	- Camp 12		Method for Time-Stamping	
332.31						M.Mar-04	Recipient Location	_
	870700	219273	AT&T Wireless	Mexico	28-May-90			•
332.MX	204240		-					

1986.2865   316839   AT&T Wireless   Norway   26.May-88   19.Jul-04   Sampting Sam	Docket Number	Application Number	Patent Number	Owner	Country	Application	Grant	911	·
(CT)         19982385         316993         AT&T Wineless         Norway         ZEAMBY-9B         13-Jui-On           (CT)         08/868401         6239719         AT&T Wineless         United States         03-Jun-67         29-May-01           (CT)         08/868401         6239719         AT&T Wineless         United States         03-Jun-67         29-May-01           (CT)         09/82884         AT&T Wineless         United States         03-Jun-67         29-May-01           (CT)         09/82884         AT&T Wineless         Brazil         28-May-86         13-Aug-03           (CT)         09/82884         AT&T Wineless         Canada         30-Ap-01         28-May-86         13-Aug-03           (CT)         08/8304081.7         883313         AT&T Wineless         Germany         22-May-86         13-Aug-03           (CT)         98/8304081.7         883313         AT&T Wineless         Finland         22-May-96         13-Aug-03           (CT)         98/8304081.7         883313         AT&T Wineless         France         22-May-96         13-Aug-03           (CT)         98/8304081.7         883313         AT&T Wineless         Great Britain         22-May-96         13-Aug-03           (CT)         <								A Method for Time-	
19962385   316993   AT&T Wireless   Norway   26-May-98   19-Jul-O4								Stamping a Message	
Fig. 108312   111946   AT&I Wireless   Talwan   28-May-98   13-Juin-00	332.NO	19982385	316993	AT&T Wireless	Norway	26-May-98	19-Jul-04	Location	
V         87108312         111946         AT&T Wireless         Talwan         28-May-98         13-Juin-00           1.C1         09/8268401         6239719         AT&T Wireless         United States         03-Jun-97         22-May-01           1.C1         09/8268401         6239719         AT&T Wireless         United States         05-Apr-07         22-May-01           1.C1         09/82684         AT&T Wireless         Brazil         22-May-98         13-Juin-07           2.23623           AT&T Wireless         Canada         30-Apr-8         30-Oct-01           2.23623           AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154085/1986         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154085/1986         AT&T Wireless         Great Britain         22-May-98         13-Aug-03								Method for Time-Stamping	_
108/868401 6239719 AT&T Wireless United States 03-Jun-97 29-May-01	332.TW	87108312	111946	AT&T Wireless	Taiwan	28-Mav-98	13-110-00	a Message Based on a	
1.C1         08/06/8401         623/9719         AT&T Wireless         United States         03-Jun-97         29-May-01           1.C1         09/825/994         AT&T Wireless         United States         05-Apr-01         29-May-01           1.C1         09/825/994         AT&T Wireless         United States         05-Apr-01         28-May-98           2.236/231         AT&T Wireless         Canada         30-Apr-98         13-Aug-03           98/304/081.7         69/817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98/304/081.7         68/3313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98/304/081.7         88/3313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98/304/081.7         88/3313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98/304/081.7         88/3313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154/08/31/996         154/08/31/998         AT&T Wireless         Japan         03-Jun-98         13-Aug-03							33	Method for Time-Stamping	_
CCT         O9/02/5894         AT&T Wireless         United States         05-Apr-01         29-May-01           CCT         09/02/5894         AT&T Wireless         United States         05-Apr-01         28-May-01           CCT         9806495-9         AT&T Wireless         Brazil         28-May-88         30-Oct-01           CCT         2236231         AT&T Wireless         Canada         30-Apr-89         30-Oct-01           CCT         98304081.7         883313         AT&T Wireless         Convention         22-May-89         13-Aug-03           S8304081.7         883313         AT&T Wireless         Finland         22-May-99         13-Aug-03           S8304081.7         883313         AT&T Wireless         Finland         22-May-99         13-Aug-03           S8304081.7         883313         AT&T Wireless         Finland         22-May-99         13-Aug-03           S8304081.7         883313         AT&T Wireless         Great Britain         .22-May-98         13-Aug-03           1540851998         AT&T Wireless         Japan         03-Jun-98         13-Aug-03	31162	707020700						a Message Based on a	
13-408313   13-40g-03   13-4	332.03	U0/0004U1	6239719	AT&T Wireless	United States	03-Jun-97	29-May-01	Recipient Location	
LC1         09/825894         AT&T Wireless         United States         05-Apr-01           1         9806495-9         AT&T Wireless         Brazil         28-May-98         30-Apr-88           2         2236231         AT&T Wireless         Canada         30-Apr-88         30-Oct-01           98304081.7         69831086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98304081.7         88331.3         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154063/1996         AT&T Wireless         Great Britain         22-May-98         13-Aug-03			-					Method for Time-Stamping	
2236231 2236231 AT&T Wireless Brazil 28-May-98 30-Oct-01 2236231 AT&T Wireless Canada 30-Apr-98 30-Oct-01 22-May-98 13-Aug-03 20-Oct-01 22-May-98 13-Aug-03	332.US.C1	09/825894		AT&T Wireless	United States	05-Apr-01		a Message Based on a Recipient Location	
C         98304081.7         883313         AT&T Wireless         Canada         30-Apr-98         13-Aug-03           C         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           B8304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           B8304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           B8304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           B8304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03		-						Method and System for	_
C         28304081.7         883313         AT&T Wireless         Gent Displayer         Canada         22-May-96         13-Aug-03           C         98304081.7         883313         AT&T Wireless         France         22-May-96         13-Aug-03           B8304081.7         883313         AT&T Wireless         Great Britain         22-May-96         13-Aug-03								Providing Data	
154083/1996   AT&T Wireless   Brazil   26-May-96   30-Oct-01	99 00							Communication With a	
2236231 AT&T Wireless Canada 30-Apr-98 30-Oct-01 98304081.7 69817086.5 AT&T Wireless Germany 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 13-Aug-03-Au	333.BK	9806495-9		AT&T Wireless	Brazil	28-May-98		Mobile Station	
C         2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98         13-Aug-03								Method and System for	_
C         2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           C         98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98         13-Aug-03								Providing Data	
C 98304081.7 69817086.5 AT&T Wireless Canada 30-Apr-98 30-Oct-01  European Patent European Patent Convention 22-May-98 13-Aug-03  98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03  98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03  154083/1998 AT&T Wireless Japan 03-Jun-98	333.CA	2236234	2226224	A T O T 18/1-1-1-				Communication With a	
69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           883313         AT&T Wireless         Convention         22-May-98         13-Aug-03           883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           883313         AT&T Wireless         France         22-May-98         13-Aug-03           8         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           8         AT&T Wireless         Japan         03-Jun-98         13-Aug-03		443043)	1670677	AIGI WIREIBSS	Canada	30-Apr-98	30-Oct-01	Mobile Station	_,
C         98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03							0	Method and System for	
C         98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03								Providing Data	
C         98304081.7         883313         AT&T Wireless         Convention         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98	333.DE	98304081.7	69817086.5	AT&T Wireless	Germany	22-May-98	13-Aug-03	Mobile Station	
C         98304081.7         883313         AT&T Wireless         European Patent Convention         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98						-		Method and System for	_
C         98304081.7         883313         AT&T Wireless         Convention         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           AT&T Wireless         AT&T Wireless         Great Britain         22-May-98         13-Aug-03				•				Providing Data	
Convention         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         . 22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98         13-Aug-03	001				European Patent			Communication With a	
98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98         03-Jun-98	333.EPC	98304081.7	883313	AT&T Wireless	Convention	22-May-98	13-Aug-03	Mobile Station	
98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         . 22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98						-	•	Method and System for	
98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         . 22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98								Providing Data	
98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98	333.FI	98304081.7	883313	AT&T Wireless	Finland		12 010 03	Mobile Station	
98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         . 22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98						20 (21)	20.00	Method and System for	_
98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98							•	Providing Data	
98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98		٠,						Communication With a	
98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98	333.FR	98304081.7	883313	AT&T Wireless	France	22-May-98	13-Aug-03	Mobile Station	
98304081.7         883313         AT&T Wireless         Great Britain         . 22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98								Method and System for	
98304081.7         883313         AT&T Wireless         Great Britain         . 22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98	-							Providing Data	
154083/1998 AT&T Wireless Japan 03-Jun-98	333.68	98304081.7	883313	AT&T Wireless	Groat Britain	22 May 08	13 Aug 03	Communication With a	
154083/1998 AT&T Wireless Japan 03-Jun-98				200		00-fam 77	SOLANU-CI	Mothed and Sustain for	:
154083/1998 AT&T Wireless Japan 03-Jun-98		•						Providing Data	
	333.JP	154083/1998	-	AT&T Wireless	Japan	03-Jun-98		Communication With a	

					Application	Grant	
Docket	Application	Patent		Country	Application	Date	Title
Number	Number	Number	Owner	Name			Mobile Station
		•					Method and System for
							Providing Data
							Communication With a
					04- lun-98	08-Jan-03	Mobile Station
71	004253	212436	AT&T Wireless	Mexico	20 100-10		Method and System for
333.MX	2000					•	Providing Data
							Communication wint a
			ATET Wireless	Norway	26-May-98		Mothed and System for
333.NO	19982384		Community (BIV				Organistics Oata
							Communication With a
					22 May 08	13-Aug-03	Mobile Station
	. 10000000	883313	AT&T Wireless	Sweden	75-IVIQY-50		Method and System for
333.SE	90304001.1						Providing Data
			-		,	70 11	Mobile Station
			AT&T Wireless	Taiwan	28-May-98	17-Apr-01	Mothod and System for
333.TW	87108311	123686	Algi Wilciess				Drowiding Data
							Communication With a
					02 Jun 07	21-May-02	Mobile Station
	0200000	6393014	AT&T Wireless	United States	10-100-00		Method and System for
333.US	06/000530						Providing Data
					,		Mobile Station
			AT&T Wireless	United States	12-Apr-02	+	Method and System for
333.US.C1	10/120548		5			•	Providing Data
ļ Į,							Communication With a
				1 Inited States	10-Sep-04		Mobile Station
333.US.C1(1)	mailed		AT&1 Wireless	DO PONIO			System and Method for
			AT&T Wireless	Brazil	31-Mar-98		Processing Clopped Cana
334.BR	9801221-5					70 00	System and Medicol 10:
		7724038	AT&T Wireless	Canada	12-Mar-98	30-001-01	and the state of t
334.CA	2231938	263 1330		European Patent			System and Method 104 Processing Dropped Calls
- 1	08302011.6		AT&T Wireless	Convention	18-Mar-90		System and Method for
324.67	20000			lanan	09-Apr-98		Processing propped Caus
334.JP	96520/1998		AT&I WIREIESS	Napoli Pierre			System and Method for
			ATET Wireless	Mexico	02-Apr-98		Processing Uropped Calls
334.MX	982578		5			· .	•

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Title	System and Method for Processing Dropped Calls	System and Method for Processing Dropped Calls	Apparatus for Providing Enhanced Functionality to a Mobile Station	Method for Designing Wireless Communications Cell Sites Using Uplink Parameters	A Method and System for Optimizing Performance of a Mobile Communications System	A Method and System for Optimizing Performance of a Mobile Communications System	Method and System for Delivering a Voice Mail Notification to a Private Base Station Using Cellular Phone Network	Method and Apparatus for Voice Mail Sharing Between Wired and Wireless Telephones	Method for Locating a Mobile Station	Method for Locating a Mobile Station	A Method for Locating a Mobile Station	A Method for Locating a Mobile Station	Method for Locating a Mobile Station	Customized On-Line User Guide	Customized On-Line User Guide
Grant Date		13-Jun-00	06-Nov-01	05-Nov-02	05-Aug-03		11-Jan-00			29-Jun-04	14-Mar-02	24-Oct-00	26-Dec-00	16-Dec-03	
Application Date	07-Apr-98	03-Apr-98	29-Jul-97	23-Dec-97	23-Dec-97	02-Dec-02	10-Apr-97	04-Dec-97	02-Jun-98	27-Apr-98	01-Jun-98	28-May-98	03-Jun-97	14-Oct-98	14-Oct-98
Country	Norway	Taiwan	United States	United States	United States	United States	United States	United States	Brazil	Canada	Mexico	Taiwan	United States	Canada	European Patent Convention
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number		111939	6314303	6477376	6603966		6014559			2235982	207198	116657	6167274	2275186	
Application Number	19981596	87105092	08/902373	08/996764	08/996486	10/307668	08/838582	6899	9801756-0	2235982	984355	87108313	08/868402	2275186	98953442.5
Docket Number	334.NO			340.US	342.US	342.US.C1	346.US		352.BR	352.CA	352.MX	352.TW	352.US	353.CA	353.EPC

	-			Country	Application	Grant	Title
Application Patent	Patent Number		Owner	+	Date	Date	Customized On-Line User
tampe:			AT&T Wireless	Japan	14-Oct-98		Jest I ad I do I
3228			2 dichim Fort	Mexico	14-Oct-98		Guide
995662		1				6	Customized On-Line User
CYOCOCY	0700070		AT&T Wireless	United States	22-0ct-97	04-Jun-02	Customized On-Line User
	250000	T .	AT&T Wireless	United States	26-Mar-02	21-Sep-04	A Method and Apparatus
10/108275 6/35/02	6/35/02	1			20.Oct-98	23-Sep-03	a Dedicated Processor
2272054 2272054		}-	AT&T Wireless	Canada			Apparatus for Fine in 9 Packets Using a Dedicated
6002110	6092110		AT&T Wireless	United States	23-0ct-97	18-Jul-00	Method and Apparatus for Eiltering Packets Using a
					26.Mav-00	11-Nov-03	Dedicated Processor
09/580204 6647418		十	AT&T Wireless	United States			Filtering Packets Using a
			AT&T Wireless	United States	30-Sep-03		User Assisted Wireless
10/673439		+			10-Jun-98	\ \ 	Fraud Detection
9801993		+	AT&T Wireless	European Patent	00		User Assisted Wileless Fraud Detection
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			AT&T Wireless	Convention	Z1-May-90		User Assisted Wireless Fraud Detection
90304042.9			AT&T Wireless	Japan	08-Jun-88		User Assisted Wireless
10-130/92			AT&T Wireless	Mexico	08-Jun-98	-	User Assisted Wireless
984569	-	1.		:	05-Jun-98		Fraud Detection
19982603		٠ ١	AT&T Wireless	Norway		12-May-00	User Assisted Wireless Fraud Detection
110725 110725	110725	. \	AT&T Wireless	Taiwan	06-Jun-60		System and Method for Processing Dropped Calls
		l	AT&T Wireless	Brazil	31-Mar-98	O-MON-00	System and Method for Processing Dropped Calls
98011220-7	2231932		AT&T Wireless	Canada	12-Mar-98		System and Method for
			AT&T Wireless	Convention	18-Mar-98		Processing University
98302012.4							

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
365.JP	96519/1998		AT&T Wireless	Japan	09-Apr-98		System and Method for Processing Dropped Calls
365 MX	982579		AT&T Wireless	Mexico	02-Apr-98		System and Method for Processing Dropped Calls
365 NO	19981595		AT&T Wireless	Norway	07-Apr-98		System and Method for Processing Dropped Calls
365.SE	98302012.4		AT&T Wireless	Sweden	18-Mar-98	*	System and Method for Processing Dropped Calls
365.TW	87105091	108902	AT&T Wireless	Taiwan	03-Apr-98	27-Mar-00	System and Method for Processing Dropped Calls
365.US	08/838659	5995830	AT&T Wireless	United States	09-Apr-97	30-Nov-99	System and Method for Processing Dropped Calls
373.US	1710280	6201797	AT&T Wireless	United States	12-Dec-97	13-Mar-01	High Bandwidth Delivery and Internet Access for Airborne Passengers
373 US R1	10/389010		AT&T Wireless	United States	13-Mar-03		High Bandwidth Delivery and Internet Access for Airborne Passengers
			200 July 1 William	Inited States	17.Aira.98		A Method and Apparatus for Determining Billing Rates for Communication Services
20.188	100000	700007	AT&T Wireless	Linited States	17-Aug-98	13-Feb-01	Mobile Station Roaming in a Multiple Service Provider Area
392.03	2132166	6470182	AT&T Wireless	United States	15-Sep-00	22-Oct-02	Mobile Station Roaming in a Multiple Service Provider Area
31 700	ORYDOZUBE	RZDAGRS	AT&T Wireless	United States	23-Dec-97	09-Mar-04	Method and Apparatus for Providing a Hold Termination Message Service in a Communications Network
402 CA	2254393	2254393	AT&T Wireless	Canada	24-Nov-98	26-Feb-02	Method and Apparatus for Providing Calling Number identification Alias in a Communications System
402.DE	98123490.9	69800769	AT&T Wireless	Germany	14-Dec-98	09-Мау-01	Method and Apparatus for Providing Calling Number Identification Alias in a Communications System
					•		

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		trotco		Country	Application	Grant	Title
Docket	Application	Number	Owner	Name	Date		Method and Apparatus for
Number				Furonean Patent			Identification Alias in a
	3		AT&T Wireless	-+	14-Dec-98	09-May-01	Method and Apparatus for
102.EPC	98123490.9	926910					Providing Calling Number
	•				90 00	09-May-01	Communications System
(	08123490 9	926910	AT&T Wireless	France	14-Dec-30		Method and Apparatus for
402.FK	3012330:0						Identification Alias in a
					14-Dec-98	09-May-01	Communications System
402 GB	98123490.9	926910	AT&T Wireless	Great Diffailt			Method and Apparatus for Providing Calling Number
							Identification Alias in a
	٠.		350 05 11	Mexico	14-Dec-98	31-301-02	Method and Apparatus for
402.MX	9810631	209390	AIĞI WIIBIBSS				Providing Calling Number
							Identification Alias in a
				I Inited States	02-Jul-02	09-Dec-03	Methods and Systems for
402.11S.C.1	10/188521	9002999	AT&I WIRBIESS		,		Managing the Routing of
105:00:							Packets Over a Hybrid
				50000	10-Dec-98		Network
40	2255475		AT&T Wireless	Caliava			Memors and Systems of Managing of
405.CA							Packets Over a Hybrid
				European Patent	9		Network
			AT&T Wireless	Convention	17-Dec-98		Methods and Systems for
405.EPC	98124229						Managing the Routing of parkets Over a Hybrid
							Network
			AT&T Wireless	Mexico	16-Dec-98		Methods and Systems for
405.MX	9810839						Managing the Routing of Packets Over a Hybrid
					70		Network
			AT&T Wireless	United States	19-Dec-97		Methods and Systems for
405.US	08/994831			- -		<del></del>	Managing me Noumy of Packets Over a Hybrid
					14-Dec-01		Network
10 51 504	10/017042		AT&T Wireless	United States	21-Nov-01	18-Nov-03	Aircraft Cockpit Telephony
408 US C1	1918499	6650897	AT&T Wireless	Ollifed Carry			A Method and Apparatus
0.00		2272056	AT&T Wireless	Canada	20-Oct-98	23-Sep-03	1
411.CA	2272056					•	

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Docket Number	Application Number	Patent	Cuno	Country	Application	Grant	
				Name	Date	Date	Title
	_				•		for a Packet Filter Processor
411.US	08/956990	6158008	AT&T Wireless	United States	23-Oct-97	05-Dec-00	Method and Apparatus for Updating Address Lists for
							Method and Apparatus for
412.US	868062	6580914	AT&T Wireless	United States	17-410-98	17 Lin 03	Automatically Providing Location-Based Information Content on a
414.US	09/207370	6427071	AT&T Wireless	United States	08-Dec-98	30-Jul-02	Apparatus and Method for Providing Transporting for a Control Street
416.US	772368	6256735	AT&T Wireless	United States	17-Aug-98	03-Jul-01	Method and Apparatus for Limiting Access to Network Flaments
416.US.C1	09/839113	6334188	AT&T Wireless	United States	23-Apr-01	25-Dec-01	Method and Apparatus for Limiting Access to Network Elements
422.US	09/474138		AT&T Wireless	United States	29-Dec-99		System and Method for Integrating Call Delivery for Fixed-Site and Mobility Services
423.EPC	1973089.4		AT&T Wireless	European Patent Convention	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.JP	2002-527188		AT&T Wireless	Japan	18-Mar-03		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.PCT.CP1	PCT/US01/29029	,	AT&T Wireless	Patent Cooperation Treaty	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.US	09/010616	6141545	AT&T Wireless	United States	22-Jan-98	31-Oct-00	Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phone
423.US.C1	10/426046		AT&T Wireless	United States	29-Apr-03	-	Method and System for Remote Call Forwarding of Telephone Calls From Celiular Phone

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Docket	Application	Number	Owner	Name	Date	Date	Method and System for
_	7E87077	6571094	AT&T Wireless	United States	18-Sep-00	27-May-03	Telephone Calls From an IP Connection Method of Notifying a Minaloge Cuberdher as to
23.US.CP1	09/315087	6529726	AT&T Wireless	United States	19-May-99	04-Mar-03	Villetess Outs (Call Responsibilities Method of Notifying a Mirreless Subscriber as to
24 118 C1	1371396		AT&T Wireless	United States	10-Oct-02		Call Pending Responsibilities Aircraft Cabin Telephony Test Unit
425.US.C1	09/648947		AT&T Wireless	United States	25-Aug-00		Apparatus and Method for Batch Processing of
27.US	2152224	5870722	AT&T Wireless	United States	22-Sep-95	09-Feb-99	Wireless Financial Transactions Method for Providing Alternative Network-
01	252994		AT&T Wireless	United States	11-Jun-99		Associated Service Address Mobile Registration Method for Providing
20.024	10/884986		AT&T Wireless	United States	07-Jul-04		Associated Sevice Address Mobile Registration Method and Apparatus for Providing Centralized URL
429.US	09/315088		AT&T Wireless	United States	19-May-99	-	Authorization Automatic Diagnostic for Detection of Interference in
430.US.C1	2265114	6775544	AT&T Wireless	United States	10-Aug-01	10-Aug-04	System System for Securing Inbound Outbound
431.US	09/314330		AT&T Wireless	United States	19-Мау-99		Computer Network Apparatus and Method for
433.US	2151858	5907801	AT&T Wireless	United States	22-Sep-95	25-May-99	Financial Transactions

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	j	Title	System and Method for the	Use of Digital Traffic	Channels in 15-136	Networks for Transmission	or K-Data Packets	System and Method for	Adjusting the Traffic	Carried by a Network	System and Method for	Adjusting the Traffic	Fillered by a ryerwork	Mail. E-Mail. Pages Web-	Based Information, and	SS	Filtered In-Box for Voice	Mail, E-Mail, Pages, Web-	Based Information, and	SS	Wireless Adaptor and	Vireless Financial	ransaction system	Method and Apparatus for	Provious Enganced	Communication Device	Method and Apparatus for	Wireless Data Services	Over a Selected Bearer	8	Method and Apparatus for	Wireless Data Services	a selected Deal.	System and Method for	Outbox-Capable Wireless	Transmission	Method for Contacting a	Subscriber to Multiple		Wireless bearer Services Method for Contacting a
		-	Syst	nse O	2	Nes Nes	0 0	Syst	Adi	Carr	Syst	Adju		Mail	Base	Faxes	Filte	Mail	Base	raxes	Wire	T VIE	Lian	Mer	2 0		Meth	Wire	Over	Service	Meth		Service	Syste	Off	Tran	Weth	SOUS Wire		Meth
	Grant	Date								06-Jan-04						30-Sep-03						23 Nov. 00	20-INON-88		<u>.                                    </u>					24-Jun-03								·.		
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	Application	Date				07 120 00	01-3all-00			21-Jan-00		03-Dec-03			24 4::	31-Aug-99			10.012.03	CO-FOO-E		109-May-96	OC-May-00			12-Mar-01			-	27-Oct-99		•	10-Jun-03			17-Jun-99		04-Jul-00		
	Country	Name				United States	meo Oracos		. Ditod Ctoton	United States		United States			United Ctates	men ordres			United States	200000000000000000000000000000000000000	-	United States	2000		-	United States			original Position	United States			United States			United States		Brazil		
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	Ç	Owier				AT&T Wireless		•	AT&T Wireless	. Alal Wileless		AT&T Wireless			AT&T Wireless	אוומומא			AT&T Wireless			AT&T Wireless				AT&T Wireless			ATPT Mission	A G I WITEIESS			AT&T Wireless		ATOT 146-1-1	Al & I WIREIESS		AT&T Wireless		
	Patent	Mailinei							6675211	1100					6628194							5991410							6584321	17010										
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	Š					437.US			439.US			439.US.C1			440.US				440.US.C1			442.US.D2				443.US			444.US				444.US.C1		445115	3		446.BR		

Docket         Application         Patent         Country         Application of Table         The Book of Table								
2006-00.05	Docket	Application	Patent		Country	Application Date	Grant Date	Title
2000-207053	Number	Number	Number	Owner	Maille			Method for Contacting a
2000-207053   AT&T Wireless   Japan   07-Jul-00				:	European Patent	03-14-00		Subscriber to Multiple Wireless Bearer Services
2000-207053 AT&T Wireless Japan OT-Jul-00 12-Nov-02 12-Nov-02 14-57161 561176 AT&T Wireless United States 14-Jul-99 12-Nov-02 14-57161 561176 AT&T Wireless United States 13-Sep-95 22-Sep-96 24-43471 D396612 AT&T Wireless United States 13-Sep-95 22-Sep-96 210517 AT&T Wireless United States 02-Mar-04 10-Aug-04 213517 AT&T Wireless United States 02-Mar-04 10-Aug-04 213517 AT&T Wireless Canada 24-May-00 23004-157517 AT&T Wireless Japan 29-May-00 2000-157517 AT&T Wireless Japan 29-May-00 20-00-10-200-0030359 AT&T Wireless South Korea 02-Jun-00 10-200-00-0030359	146.EPC	305600.9		AT&T Wireless	Conveniion	20.00		Method for Contacting a
2000-207053         AT&T Wireless         Japan         07-Jul-00           09/353241         6480720         AT&T Wireless         United States         14-Jul-99         12-Nov-02           1         4357161         5611176         AT&T Wireless         United States         11-Jul-99         12-Nov-02           1         43471         D396512         AT&T Wireless         United States         11-Feb-06         10-Aug-04           1         G15067         AT&T Wireless         United States         11-Feb-00         10-Aug-04           1         AT&T Wireless         Brazil         22-May-00         10-Aug-04           A         AT&T Wireless         Canada         24-May-00         10-Aug-04           A         AT&T Wireless         Canada         24-May-00         10-Aug-04           A         AT&T Wireless         Convertion         04-Agr-00         10-Aug-06           PC         302848.7         AT&T Wireless         Japan         22-May-00         AT&T Wireless           PC         302848.7         AT&T Wireless         South Korea         02-Jun-00         02-Jun-00								Subscriber to Multiple
12-Nov-02   12-Nov-03   12-N	- 0	2000 207053		AT&T Wireless	Japan	07-Jul-00		Wireless bearer Services
12-Nov-02   12-Nov-02   13-Nov-02   14-Jul-99   12-Nov-02   14-Jul-99   14-J	445.JF	2000-201033						Method for Confedenty a
Mar. St. 1				2	Inited States	14-Ju[-99	12-Nov-02	Wireless Bearer Services
457161         5611176         AT&T Wireless         United States         01-Jun-95         18-Mar-97           C1         09/62/9960         6775270         AT&T Wireless         United States         11-Feb-00         10-Aug-04           C1(1)         635/667         AT&T Wireless         United States         02-Mar-04         10-Aug-04           C1(1)         635/667         AT&T Wireless         United States         02-Mar-04         10-Aug-04           C2(1)         635/667         AT&T Wireless         Brazil         22-May-00         10-Aug-04           C2 3309406         AT&T Wireless         Convertion         04-Agr-00         10-Aug-00           C         302848.7         AT&T Wireless         Japan         29-May-00           AT&T Wireless         South Korea         02-Jun-00	446.US	09/353241	6480720	A1&1 Wireless	Olineo Olareo			Antenna Support Structure
C1(1) 635067 AT&T Wireless United States 13-Sep-95 22-Sep-98 10-96228980 6775270 AT&T Wireless United States 11-Feb-00 10-Aug-04 10-Aug-06 10-Aug-04 10-Aug-06 10-Aug-	<u> </u>	163464	. 5611176	AT&T Wireless	United States	01-Jun-95	18-Mar-97	(utility)
C1   C3/28980   C775270   AT&T Wireless   United States   11-Feb-00   10-Aug-04   17-C1(1)   C3/28980   C775270   AT&T Wireless   United States   C2-Mar-04   C2-Mar-04   C3/28980   C3/2	447.03	43/101	2		1 Inited States	13-Sep-95	22-Sep-98	(design)
Ci(1)   G35067   G775270   AT&T Wireless   United States   11-Feb-00   10-Aug-04   11-Feb-00   10-Aug-04   11-Feb-00   10-Aug-04   11-Feb-00   10-Aug-04   11-Feb-00   10-Aug-04   11-Feb-00   11-Fe	448.US	43471	D398612	Al&i Wireless				Method for Diverting an
Columbia					1 Inited Chates	11.Feb-00	10-Aug-04	Talkpath
C1(1) 635067	451.US.C1	09/628980	6775270	AT&T Wireless	Ollifed States			Method for Diverting an
C 302949.7 AT&T Wireless United States 02-Mar-04 PP								ISUP Talkpath to an IP
213517 AT&T Wireless Brazil 22-May-00 N N AT&T Wireless Canada 24-May-00 N N AT&T Wireless Convention 04-Apr-00 AT&T Wireless Japan 29-May-00 AT&T Wireless South Korea 02-Jun-00 AT&T Wireless South Korea 02-Jun-00		-	•	AT&T Wireless	United States	02-Mar-04		Talkpath
2309406 AT&T Wireless Brazil 22-May-00 N N AT&T Wireless Canada 24-May-00 N AT&T Wireless Convention 04-Apr-00 N AT&T Wireless Japan 29-May-00 AT&T Wireless South Korea 02-Jun-00 AT&T Wireless South Korea 02-Jun-00	451.US.C1(1)	/ancra						Programming a Wireless
2309406  C 302848.7  AT&T Wireless Brazil 22-May-00							_	Telephone With a Voice
C         302848.7         AT&T Wireless         Canada         22-May-00         N           C         302848.7         AT&T Wireless         Convention         04-Apr-00           C         3020-157517         AT&T Wireless         Japan         29-May-00           10-2000-0030359         AT&T Wireless         South Korea         02-Jun-00								Mail System Access
2309406 AT&T Wireless Canada 24-May-00 P P P P P P P P P P P P P P P P P P				2001-140-1	Rrazil	22-May-00		Number
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2309406 AT&T Wireless Canada 24-May-00 C 302848.7 AT&T Wireless Convention 04-Apr-00 2000-157517 AT&T Wireless Japan 29-May-00 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00		-				-		Mail System Access
2309406 C 302848.7 European Patent Convention 04-Apr-00 2000-157517 AT&T Wireless Japan 29-May-00 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00				AT&T Wireless	Canada	24-May-00		Morbod for Automatically
European Patent Convention 04-Apr-00  2000-157517 AT&T Wireless Japan 29-May-00  10-2000-0030359 AT&T Wireless South Korea 02-Jun-00	452.CA	2303400						Programming a Wireless
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2000-157517 AT&T Wireless Convention 04-Apr-00 AT&T Wireless Japan 29-May-00 AT&T Wireless South Korea 02-Jun-00					Furonean Patent			Mail System Access
2000-157517 AT&T Wireless Controlled 29-May-00 AT&T Wireless Japan 29-May-00 AT&T Wireless South Korea 02-Jun-00					Consortion	04-Apr-00		Number
2000-157517 AT&T Wireless Japan 29-May-00 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00	452 EPC	302848.7		AT&T Wireless	Convenion	20 10 10		Method for Automatically
2000-157517 AT&T Wireless Japan 29-May-00 AT&T Wireless South Korea 02-Jun-00	2 2 2 2							Programming a Wireless
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2000-157517 AT&T Wireless Japan 29-May-00 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00							•	Mail System Access
2000-15/51/ 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00				AT&T Wireless	Japan	29-May-00		Number A. Manualically
10-2000-0030359 AT&T Wireless South Korea 02-Jun-00	452.JP	2000-157517		1000			,	Memod for Automatically
10-2000-0030359 AT&T Wireless South Korea 02-Jun-00								Telephone With a Voice
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	452 KR	10-2000-0030359		AT&T Wireless	South Korea	UZ-JUIF-VO		

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United States 30-May-00
United States 19-Jul-99

Docket	Application	Patent		Country	Application Date	Grant	Title
Number	Number	Number	Owner	Name			Testing Methods and
							Communications
	660743		AT&T Wireless	United States 2	70-707-97		Monitoring Network
470.05	020743						Performance Using
	*						Location & Performance
			-		24.Dec-00		Information
27.16	. 09/745268		AT&T Wireless	United States	20-220-1		Method and Apparatus for
472.03	200000						Use in Providing a
							Discounted Call Rate for
		•	And tallation to	Canada	02-Aug-00		Wireless Communications
474.CA	2314855		A I & I WITEIESS				Method and Apparatus ion
					8		Discounted Call Rate for
				atent	00.014.00		Wireless Communications
	210,01		AT&T Wireless	·Convention	nz-kag-zo		Method and Apparatus for
474.EPC	C./81911						Use in Providing a
							Discounted Call Rate for
				Hong Kong	21-Dec-01		Wileiess William for
474.HK	1109003.5		Algi Wireless	Bioli			Method and Apparatus for
			_		•	_	Discounted Call Rate for
					00 VIII		Wireless Communications
!	2000 238722		AT&T Wireless	Japan	0/-M04-00		Method and Apparatus for
474.JP	2000-230122						Use in Providing a
							Discounted Call Rate for
				1 Inited States	25-Apr-00	28-Oct-03	Wireless Communications
474.115	09/557381	6640096	AT&T Wireless	Ollifed Orares			Method for Registering
			<del></del> :				With a Communication
			AT&T Wireless	Brazil	05-May-00		Method for Registering
475.BR	143329						With a Communication
					19-Apr-00	16-Mar-04	Service
475 CA	2305971	2305971	AT&T Wireless	Canada			Method for Registering
413:00				European Patent			With a Communication
			AT&T Wireless	Convention	13-Mar-00		Method for Registering
475.EPC	302020.3		2000				With a Communication
					27-Apr-00		Service
475.JP	2000-127609		AT&T Wireless	Japan			Method for Registering
				Toimon	01-May-00	*	Service
475.TW	89108248		AT&T Wireless	Idiwali			

Docket         Application         Patient         Owner         Name         Country         Application         Graph Date         Date         Trile           475.US         080306761         ATLAT Wineless         United States         174,4404         With To Communication           475.US C1         10090298         ATLAT Wineless         United States         174,4404         With To Communication           481.US         080815485         6577723         ATLAT Wineless         United States         174,4404         Specifical Communication           481.US         080815485         6577723         ATLAT Wineless         United States         174,4404         10,54m-03         Application of TAGA Wine Location of TAGA Wine Location of TAGA Wineless           488.US         -176167         ATLAT Wineless         United States         07-4m-00         10,54m-03         Articular Armheling Calls Beneficial of TAGA Wineless           488.US         580850         ATLAT Wineless         United States         07-4m-00         10,54m-03         Articular Armheling Calls Beneficial Armheling Calls Benefi								The sing
100800286	Docket	Application	Patent		Country	Application	Grant	
101690298	Jaguina	Number	Number	Owner	Name	Date	Date	Title
176167   10/890298	475.US	09/306761	*	AT&T Wireless	United States	07-Mav-99		Method for Registering With a Communication Service
176167   1	475.US.C1	10/890298		AT&T Wireless	United States	14-lul-04		With a Communication
Treaty   T	481.US	09/615485	6577723	AT&T Wireless	United States	13-Jul-00	10-Jun-03	Application of TCAP
Treaty   Patent   Cooperation   AT&T Wireless   United States   Or-Jun-00		·						System and Method of Using Local Number Dordarkiit, A Nick Co.
Patent   Port/US02/21308   AT&T Wireless   Treaty   Tre	483.US	-176167		AT&T Wireless	United States	07-Jun-00		Redirect Terminating Calls
588650         AT&T Wireless         United States         01-Aug-01           2463700         AT&T Wireless         Canada         20-Dec-01           Patent Cooperation         Cooperation Cooperation         20-Dec-01           C1         mailed         AT&T Wireless         United States         21-Dec-00           C1         mailed         AT&T Wireless         United States         17-Sep-04           C2         AT&T Wireless         Argantina         18-Oct-01           Cooperation         Patent         Cooperation           PCT/US01/50369         AT&T Wireless         AT&T Wireless	488.PCT	PCT/US02/21308		AT&T Wireless	Patent Cooperation Treaty	31-14-02		Attribute Rule Enforcer for
2463700         AT&T Wireless         Canada         20-Dec-01           PCT/US01/49729         AT&T Wireless         Treaty         20-Dec-01           C1         malled         AT&T Wireless         United States         21-Dec-00           C1         malled         AT&T Wireless         United States         17-Sep-04           C1         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01	488.US	588650		AT&T Wireless	United States	01-Aug-01		Attribute Rule Enforcer for
Pott/US01/49729	490.CA	2463700		AT&T Wireless	Canada	20-Dec-01		Methods and Systems for Communicating and Controlling Facsimile
C1         malled         AT&T Wireless         United States         21-Dec-00           AT&T Wireless         United States         17-Sep-04           AT&T Wireless         AT&T Wireless         AT&T Wireless           PCT/US01/50369         AT&T Wireless         Patent Cooperation           PCT/US01/50369         AT&T Wireless         Treaty	490.PCT	PCT/US01/49729		AT&T Wireless	Patent Cooperation Treaty	20-Dec-01		Methods and Systems for Communicating and Controlling Facsimile
C1   mailed   AT&T Wireless   United States   17-Sep-04     10104905   AT&T Wireless   Argentina   18-Oct-01     POT/US01/50369   AT&T Wireless   Treaty   19-Oct-01	490.US	09/745209		AT&T Wireless	United States	21-Dec-00		Methods and Systems for Communicating and Controlling Facsimile
10104905         AT&T Wireless         Argentina         18-Oct-01           Patent         Cooperation         Cooperation           PCT/US01/50369         AT&T Wireless         Treaty	490.US.C1	mailed		AT&T Wireless	United States	17-Sep-04		Methods and Systems for Communicating and Controlling Facsimile
Patent Cooperation PCT/US01/50369 AT&T Wireless Treaty 19-Oct-01	491.AR	10104905		AT&T Wireless	Argentina	18-Oct-01		Method of Sharing Revenue for Transmission of Wireless Data From a Vehicle
	491.PCT	PCT/US01/50369		AT&T Wireless	Patent Cooperation Treaty	19-Oct-01		A Method of Sharing Revenue for Transmission of Wireless Data From a Vehicle

					a clientina	Grant	
	Amiliation	Patent		Country	Application	Date	Title
Docket	Number	Number	Owner	Name	200		Method of Sharing Revenue for Transmission
							of Wireless Data From a Vehicle
	2206-2001		AT&T Wireless	Venezuela	18-Oct-01		System and Method for
491.02	207-077						Automatically instructions a Call From a First Telephone to a Designated
			·		00 00		Telephone in Close Proximity
493.US	2578858		AT&T Wireless	United States	20-Dec-39		System and Method for Using a Short-Range
		·					Radio Link to Directly Communicate Between
							Telephones Connected
		· ·					Primary Communications
			AT&T Wireless	United States	20-Dec-99		Telematics Services
494.US	2557308						System Using Vehicle
		•		Claired Ctates	16-Oct-00		I/O Functions
497.US	09/688401		AT&T Wireless	Ollifed States			Methods and Systems for Using Network Capabilities
				Chatter Chatter	18-Dec-00		to Correct Phone Displays
498.US	09/739044		AT&T Wireless	Onited States			Multiple Handset Claure Assembly
31.337	311432		AT&T Wireless	United States	28-Nov-00		Methods and Systems for
499.03					,		Aircraft
		•					Telecommunications
	1		AT&T Wireless	United States	10-May-01		Activation and Remote
501.US	-266747						Modification of wireless Services in a Packet
			;	1 toited States	07-Nov-00		Network Context
503 118	1207/07671		AT&T Wireless	United States			A Method for Programmers
20.000							Permanent Mobile Station
			AT&T Wireless	United States	01-Nov-00		Method and Apparatus for
504.US	09/703858				,		Providing Personal Audio
				European Patent	1t 03-May-02		Alerting Capable Terminals
506.EPC	2734147.8		AIGI WITEIESS				

	Patent		Country	<b>Application</b>	Grant	
ı	Number	Owner	Name	Date	Date	Title
			Datent			Method and Apparatus for
	•.		Conneration			Providing Personal Audio
	-	AT&T Wireless	Treaty	03-Mav-02		Alert Messaging for Audio Alerting Capable Terminate
						Personal Audio Alert
•		ATOT MANAGEMENT	Control Officer			Message for Audio Alerting
Τ		Ala Wireless	United States	06-Jul-01		Capable Terminai
					-	Method and Apparatus for
						Providing Interactive Lext
		AT&T Wireless	United States	31-Jul-01		Messages During a Voice   Call
						Method and Systems for
			Erropopa Datost			Managing Customizable
		AT&T Wireless	Convention	16-Mav-01		Content on Wireless Data
						Mothod and Customs for
•	-		•			Managing Customizable
		•		*		Content on Wireless Data
		AT&T Wireless	Japan	16-May-01		Devices
				-		Methods and Systems for
Т	6603984	AT&T Wireless	United States	14-May-01	05-Aug-03	Wireless Data Devices
	٠.	•	Patent			Using Wireless Cookies to
		A T 0 T 18 (1-2)	Cooperation			Deliver Network-Based
$\dagger$		Alai Wildiass	Treaty	12-3un-02		Location Information
				•		Using Wireless Cookles to
$\exists$		AT&T Wireless	United States	12-Jun-01		Location Information
						System and Method of
		-				Providing Public Voicemail
		AT9T Windham	I Inited Chates			Service to Private Network
Ŧ		Ala Wireess	Officed States	30-may-01		Subscribers
						System and Method for
	•	-				Using a Temporary
			-			Electronic Serial Number
-		-AT&T Wireless	Amentina	05-Nov-01		of a Mobile Device
1						System and Method for
						Using a Temporary
						Electronic Serial Number
		ATPT Mississes	11.00	07 No. 04		for Over-the-Air Activation
1		AIG: WIIGIGSS	Didzii	0/-4004-01		or a Mooille Device

Docket	Application	Patent	1	Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Мате	255		System and Method for
		·					Using a Terriporary Electronic Serial Number
							for Over-the-Air Activation
				Canada	03-Oct-01		of a Mobile Device
520 CA	2358175		AT&I WIREIESS	Carlada		•	System and Method for
							Using a Temporary
							Electronic Serial Normal
				European Patent			for Over-the-All Activation
			AT&T Wireless	Convention	07-Nov-01		System and Method for
520.EPC	1994191.3						Using a Temporary
							Flectronic Serial Number
					•		for Over-the-Air Activation
							of a Mobile Device
			AT&T Wireless	Japan	07-Nov-01		System and Method for
520.JP	2002-558719						Using a Temporary
							Flectronic Serial Number
							for Over-the-Air Activation
		:			70		of a Mobile Device
	D41-000410447E		AT&T Wireless	Mexico	10-NON-10		System and Method for
520.MX	PA/a/ZUUT/UTTTT						Using a Temporary
			•	Patent			Electronic Serial Number
	. •			Cooperation			for Over-the-Air Activation
				Treaty	07-Nov-01		of a Mobile Device
FOO DCT	PCT/US01/47711		AT&I Wireless	lically .			System and Method for
350.10							Using a Temporary
						-	for Over-the-Air Activation
				,	3	08, 1, 1, 03	of a Mobile Device
•		800100R	AT&T Wireless	United States	07-Nov-00	20000	System and Method for
520.US	09/70/593	020120					Using a Temporary
							Electronic Serial Number
	-						for Over-the-Air Activation
				Soloto Peritain	08-Anr-03		of a Mobile Device
500116	10/409770		AT&T Wireless	United States	200		System and Method for
320.03.0					_		Using a Temporary
	•						Electronic Senal Number
							Tor Over-me-All Acuseum
			4 + 0 + 14/1-pope	Venezuela	05-Nov-01		of a Mobile Device
520.VZ	2001-002318		AIG! WIEIGS	Patent			Using a Wireless Cookie to
				Cooperation		*	Deliver Mobile-Based
T/0 363	DCT/1802/18612		AT&T Wireless	Treaty	12-Jun-02	-	
323.701							

· ·		_ <del></del> -7				1			Γ					
Title	Using a Wireless Cookle to Deliver Mobile-Based Location Information	A Short Message Point-to- Point Protocol Gateway Having a Standard Interface	An SMPP Gateway Having a Standard Interface	An SMPP Gateway Having a Standard Interface	An SMPP Gateway Having a Standard Interface	Method of Delivering Short Messages Using an SMPP Gateway With a Standard Interface	Method of Binding to a SMPP Gateway	A System and Method for Performing Anti-Spam Control Using a SMPP Gateway	A System and Method for Performing Throttle Control in a SMPP Gateway	A System and Method of Performing Flow Control in a SMPP Gateway	Scrolling Display for Mobile Telephone Text Messaging	Scrolling Display for Mobile Telephone Text Messaging	Network Access Using Network Identification	Shared-Revenue Billing System for Transmission of
Grant Date											<i>;</i>	28-Sep-04		
Application Date	12-Jun-01	16-Nov-01	16-Nov-01	16-Nov-01	16-Nov-00	17-Nov-00	17-Nov-00	17-Nov-00	17-Nov-00	16-Nov-00	12-Apr-02	10-Apr-02	02-Oct-01	18-Oct-01
Country	United States	Canada	European Patent Convention	Patent Cooperation Treaty	United States	United States	United States	United States	United States	United States	Patent Cooperation Treaty	United States	United States	Argentina
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number												6799033		
Application Number	09/879349	2428440	1994087.3	PCT/US01/43671	09/714036	09/714035	09/714034	00/714033	09/714032	09/714031	PCT/US02/11450	10/120475	09/968528	10104906
Docket Number	ļ				527.US1		527.US3						530.US	531.AR

Docket	Application	Patent		Country	Application Date	Grant	Title	
Number	Number	Number	Owner	A STATE OF THE STA			Wireless Data From a Vehicle	
			A T.R.T. Miralose	European Patent	19-May-03		Apparatus and Method for Monitoring a Wireless Device Associated With a Vehicle	
531.EPC	198/1994.9		AT&T Wireless	Patent Cooperation Treaty	19-Oct-01	·	Shared-Revenue Billing System for Transmission of Wireless Datafrom a Vehicle	
231.PC1		6751475	AT&T Wireless	United States	19-Oct-00	15-Jun-04	Shared-Kevenue buing System for Transmission of Wireless Data from a Vehicles and Systems for	
				octory to the second	A hon Od		Monitoring Data Communication of a Wireless Device Associated with a Vehical or Other Device	
531.US.C1	10/862773		A1&1 Wireless	United States	06-Jul-04		Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle	•
531.US.C2	mailed		AT&T Wireless	United States	06-Jul-04		Methods and Systems for Monitoring Data Communication of a Wireless Device Associated with a Vehicle	
531.US.CP1 531.VZ	10/885427		AT&T Wireless	Venezuela	18-Oct-01		System for Transmission of Wireless Data From a Vehicle Method and System for	
532.PCT	PCT/US02/21073		AT&T Wireless	Patent Cooperation Treaty	03-141-02		Audibly Announding an Indication of an Identity of a Sender of a Communication Method and System for	·
31 - 66	. 30008/00	6570983	AT&T Wireless	United States	06-Jul-01	27-May-03	Audibly Announcing an Indication of an Identity of a Sender of a Communication	

· [		eg.	<b>b</b>	1	<u> </u>		5			'n			۲			Ţ,	 5						<u> </u>			<u> </u>	 !		£	SEC.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	 5	٦	
	Title	Location Information Erase on SIM Cards	Prepaid Phone Service for Both Wired and Wireless Telecommunication		Prepaid Phone Service for Both Wired and Wireless	nication	Prepaid Phone Service for	Both Wired and Wireless Telecomminication		Prepaid Phone Service for	Both Wired and Wireless Telecommunication		Prepaid Phone Service for	Both Wired and Wireless	nication  -	Dennid Bhone Senice for	Prepaid Priorie Selvice in Both Wired and Wireless	nication		Vireless	Telephone Services for a	Personal Wireless Telephone and a Vehicular	lephone	Wireless	Telephone Services for a	Personal Wireless Felephone and a Vehicular	lephone	letwork	Selection Based on Quality	of Service and Applications	Over Different Wireless	Networks	. Administrator nance of	Components in a Mobility	
		Location Inform on SIM Cards	Prepaid Phone Serv Both Wired and Wire Telecommunication	Devices	Prepaid Pho Both Wired	Telecommunication	Prepaid Pho	Both Wired and Wire	Devices	Prepaid Pho	Both Wired and Wire Telecommunication	Devices	Prepaid Pho	Both Wired	Telecommunication	Deposid Div	Both Wired	Telecommunication	Devices	Sharing of Wireless	Telephone	Personal Wireless	Wireless Telephone	Sharing of Wireless	Telephone	Personal Wireless	Wireless Telephone	Intelligent Network	Selection B	of Service a	Over Offer	Networks	Operations, Administration of Administrations of Ad	Componen	
Grant	Date					. •					-				04-Mar-03	20-10-10-10-10-10-10-10-10-10-10-10-10-10														•					
Application	Date	21-Dec-00		19-Dec-01		20.Dec.01			21-Dec-01			21-Dec-01			. Doc.00	41-Dec-00	٠		17-Dec-02			٠.	03-Oct-01				03-Oct-01					29-Dec-00		15-Nov-01	
Country	Name	United States		Argentina		واند		Furonean Patent			Cooperation	Treaty			I Inited States	Ollifed States			United States		11111	Patent	Treaty				I Inited Ctates	Source County				United States		United States	
	Owner	AT&T Wireless		AT&T Wireless		AT&T Wireless		-	AT&T Wireless			AT&T Wireless				Ala Wireless			AT&T Wireless				AT&T Wireless	2000			0001-041-044	Alal Wildias				AT&T Wireless		AT&T Wireless	
1	Number															652953														-					
	Number	09/742313		10105972		3417-2004	1007-1110		1991484.5			PCT# IS01/49803				09//42924	-		10/322218		•		20CT # 1004 101 100	101000000				09/9/1080				09/752487		2414133	
4-1-2	Number	-		535.AR		535 CI			535.EPC			535 PCT				235.05			535 US C1				TOUGE	330.101				536.US				539.US		540115	2200

Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Name	250		Network
							Inter-Carrier Sort Text
				Canada	22-Jan-03		Message Delivery
541.CA	2417028		AT&I Wireless		60		Inter-Carrier Sort 1ext Message Delivery
541115	10/347504		AT&T Wireless	†	1/-Jan-03		Outck SMS Reply
241.05	40/00/833		AT&T Wireless	United States	19-Dec-01		Methods and Systems for
542.05	10024000						Providing Application Level
				Cottoocs	20-Nov-01		Presence Information in Wireless Communication
543.AR	10105421		AT&T Wireless	Algenma			Methods and Systems for
·							Presence Information in Wireless Communication
	2820-2001	•	AT&T Wireless	Chile	Z0-NON-02		System for Providing
243.CL	202-2707			European Patent	20-Nov-01		Wireless Communication Presence Information
543.EPC	1997932.7		AT&T Wireless	COLINGIA			Methods and Systems for
				Patent			Presence Information in
			ATRT Wireless	Treaty	20-Nov-01		Wireless Communication
543.PCT	PCT/US01/43228		Algi Widdes				Providing Application Level
				:	10 yell oc		Presence Information in Wireless Communication
543.US	1596720		AT&T Wireless	United States	10-201-07		Electronic Surveillance Via
			AT&T Wireless	United States	27-Feb-02	•	Correlation of Call Legs
548.US	10/086192						Correlation of Call Legs in
	7070000		AT&T Wireless	United States	27-Feb-02		Wireless Communications
549.US	10/000491			*			System and Method of
					30-Jan-98	31-Dec-02	Fraud
550.CA	2278535	2278535	AT&1 Wireless	200			Wireless Communications System and Method of
		<del></del>		European Patent		A Ano Ot	Operation for Reducing Fraud
550.EPC	98904768.3	956733	AT&T Wireless	Convention	30-Jan-90	R	Wireless Communications
		·			90		System and Meuros of Operation for Reducing Fraud
550.JP	2515700		AT&T Wireless	Japan	SQ-Jail-90		
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Title	nimunications Method of Reducing	nmunication Method of Reducing	mmunication Method of Reducing	etwork Performanc	rive Network Performanc	d Apparatus	d Apparatus s, and ssages	SACCH-Based Fast Powe Control for GERAN (GSM Edge Radio Access Network)	ing of Pre- siM Using Pseud	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	ng of Pre- M Using Pseud	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo
Ţ	Wireless Communications System and Method of Operation for Reducing Fraud	Wireless Communications System and Method of Operation for Reducing Fraud	Wireless Communications System and Method of Operation for Reducing Fraud	Real-Time Network Analysis and Performance Management	Real-Time Drive Network Analysis and Performance Management	A Method and Apparatus to Manage a Resource	A Method and Apparatus to Store, Access, and Forward Messages	SACCH-Based Fast Power Control for GERAN (GSM Edge Radio Access Network)	Hottine Routing of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pse MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pse
Grant Date	06-Dec-02	16-May-00	21-May-02	·								
Application Date	30-Jan-98	31-Jan-97	30-Nov-99	04-Mar-02	04-Mar-02	26-Oct-01	27-Nov-01	08-Nov-01	04-Jun-02	18-May-04	04-Jun-02	04-Jun-02
Country Name	Wextco	United States	United States	Patent Cooperation Treaty	United States	United States	United States	United States	European Patent Convention	Hong Kong	Patent Cooperation Treaty	(Inited States
Owner		AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	211880	6064875	6393283					-	·			
Application Number	0907060	1288790	09/451589	PCT/US02/06909	10/090265	10/039577	09/995327	60/337892	2734731.9	4103513.8	PCT/US02/18053	10/162304
Docket Number		550.US	550.US.C1	553.PCT	553.US	557.US	559.US	562P.US	584.EPC	7884 H	584.PCT	564 1 15

				Country	Application	Grant	
Docket	Application	Patent	2000	Name	Date	Date	Title
Number	Number	Number	Owiei				WSISDNs
			· · ·				
-						•	Mobile Station Location
				charac	03-Anr-02		Estimation
565.CA	2441764		AT&T Wireless	Callana			Methods and Apparatus for
							Mobile Station Location
	7 07 11000		AT&T Wireless	China P.R.	03-Apr-02		Estimation
565.CN	2807712.1						Mobile Station Location
				European Patent	03-Anr-02		Estimation
565.EPC	2759749.1		AT&T Wireless	CONVENICON	20.00		Methods and Apparatus for
							Mobile Station Location
			A TOT Williamore	lanan.	03-Apr-02		Estimation
565.JP	mailed		Alai Wireless	- Indep			Methods and Apparatus for
			-				Mobile Station Location
				South Korea	03-Apr-02		Estimation
565.KR	2003-7012902		Alai Wireigss			-	Methods and Apparatus for
		-	_				Mobile Station Location
			ATOT Mireless	Mexico	03-Oct-03		Estimation
565.MX	PA/a/2003/009011		Aldi Wildias	Patent		٠.	Methods and Apparatus for
				Conneration	-		Mobile Station Location
				Troopy	03-Apr-02		Estimation
565.PCT	PCT/US02/10791		AT&T WIREIESS	Heaty			Mobile-Assisted Network
							Location System (MINLS)
			4401-1411-141	1 Inited States	08-Mar-04		Overview
565.US	10/473926		AI & I WITELESS	Source Country			Methods and Apparatus for
							Anonymous User
	-						Identification and Content
							Personalization in Wireless
			ATRT Wireless	United States	05-Dec-01		Communication
566.US	1839637		AIGH WIEGES				Modia Flows
			AT&T Wireless	China P.R.	17-Oct-03		Media Fiows
568.CN	Z808405.5			European Patent			Binding Information for IP
			ATOT Mirelose	Convention	16-Apr-02		Media Flows
568.EPC	2728813.3		Algi wiididəs				Binding Information for in
	7		AT&T Wireless	Japan	17-Oct-03		Media Flows
568.JP	mailed			Patent			Il and control of the lot
		•		Cooperation			Media Flows
SAR PCT	PCT/US02/12181		AT&T Wireless	Treaty	16-Apr-02		Binding Information for IP
2000				Linited Chatee	104-Mar-02		Media Flows
568115	10/091047		AT&T Wireless	United States	04-Mar-02		
2000							• •

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1111278.4   ATST Wireless   European Patent   16-May-01   D   D   D   D   D   D   D   D   D	Docket	Application	Patent	Owner	Name	Date	Date	Title
European Palent 16-May-01	Mariner							Method and Systems for
111279.4   AT&T Wireless   Convention   15-May-01   D   D			٠.		Funnean Patent			Information on Wireless
11   12   2001 -146284	700 CE	4444070 4		AT&T Wireless	Convention	16-May-01		Data Devices
2001-146284 AT&T Wireless Japan 16-May-01 C 2773532.3 AT&T Wireless Convention 30-Apr-04 T PCT/US0230124 AT&T Wireless Canada 24-Jun-02 Mailed AT&T Wireless Canada 24-Jun-02 AT&T Wireless Canada 24-Jun-02 AT&T Wireless Canada 24-Jun-02 T PCT/US0220105 AT&T Wireless Treaty	3/3.Erc	11112/34						Method and Systems for
16-May-01   16-May-01   10-May-01   10-M			-					Searching and Managing
AT&T Wireless		•						Information on Wireless
AT&T Wireless United States 14-May-01 E.  C 2773532.3 AT&T Wireless Convention 30-Apr-04  T PCTAUS02/30124 AT&T Wireless United States 03-Oct-01  AT&T Wireless United States 03-Oct-01  AT&T Wireless Canada 24-Jun-02  AT&T Wireless Canada 24-Jun-02  AT&T Wireless Canada 24-Jun-02  AT&T Wireless Canada 24-Jun-02  AT&T Wireless Treaty 24-Jun-02  AT&T Wireless Treaty 24-Jun-02	573.JP	2001-146264		AT&T Wireless	Japan	16-May-01		Data Devices
456433   478T Wireless   United States   14-May-01								Method and Systems for
AF81 Wireless   United States   14-May-01   C   2773532.3   AT81 Wireless   Convention   30-Apr-04   C   C   C   C   C   C   C   C   C						•		Searching and Managing
456433   AT&T Wireless   United States   14-May-01   European Patent   Convention   30-Apr-04   Taga Wireless   Convention   30-Apr-04   Taga Wireless   Treaty   T				-				Information on Wireless
European Patent Structure Schwention Structure Schwenting Structure Schwenting Structure Schwenting Structure Schwenting Structure Schwenting Schwenti	S1311S	456433		AT&T Wireless	United States	14-May-01		Data Devices
2773532.3 AT&T Wireless Convention 30-Apr-04  PCT/US02/30124 AT&T Wireless Canada 24-Jun-02  Mailed AT&T Wireless Canada 24-Jun-02  AT&T Wireless Canada 24-Jun-02  AT&T Wireless Treaty Cooperation Cooperation Cooperation Treaty Cooperation Cooperation Treaty Treaty Treaty	2000							Recognition of an
### European Patent	•				•		-	Automatic Connection
2773532.3   AT&T Wireless   Convention   30-Apr-04   Convention   30-Apr-04   Convention   Cooperation   19-Sep-02   Treaty   T		-						Using Spoken Address
2773532.3   AT&T Wireless   Convention   30-Apr-04   Patent					Furnnean Patent			Voice Mails and Real Time
Patent Cooperation 19-Sep-02  PCT/US02/20124  PT&T Wireless Treaty Treaty 19-Sep-02  AT&T Wireless United States 03-Oct-01  AT&T Wireless Canada 24-Jun-02  AT&T Wireless Treaty 24-Jun-02  AT&T Wireless Treaty 24-Jun-02  AT&T Wireless Treaty 24-Jun-02  AT&T Wireless Treaty 24-Jun-02	010	04406000		ATRT Wireless	Convention	30-Apr-04		Telephone Conversations
Patent Cooperation   19-Sep-02   Treaty   Trea	S/0.EPC	2113332.3		2000				Recognition of an
Patent Cooperation   19-Sep-02   Treaty   Treaty   Treaty   19-Sep-02   Treaty   T	•							Automatic Connection
PCT/US02/30124   AT&T Wireless   Treaty   Trea		-						Using Spoken Address
PCT/US02/30124					Patent			Information Received in
PCT/US02/30124 AT&T Wireless Irealy 19-Sep-02  09/972572 AT&T Wireless United States 03-Oct-01  mailed AT&T Wireless Canada 24-Jun-02  AT&T Wireless Trealy 24-Jun-02  AT&T Wireless Trealy 24-Jun-02			•		Cooperation			Voice Mails and Real Time
09/972572 AT&T Wireless United States 03-Oct-01 mailed AT&T Wireless Canada 24-Jun-02 Cooperation Cooperation 24-Jun-02 AT&T Wireless Treaty 24-Jun-02	576.PCT	PCT/US02/30124		AT&T Wireless	Treaty	19-Sep-02		l eleptione conversations
09/972572         AT&T Wireless         United States         03-Oct-01           malled         AT&T Wireless         Canada         24-Jun-02           T1         PCT/US02/20105         AT&T Wireless         Treaty         24-Jun-02								System and Method for
09/972572   AT&T Wireless   United States   03-Oct-01					•			Recognition of and Automatic Connection
mailed AT&T Wireless United States 03-Oct-01  AT&T Wireless United States 03-Oct-01  AT&T Wireless Canada 24-Jun-02  Cooperation AT&T Wireless Treaty 24-Jun-02								Using Spoken Address
mailed         AT&T Wireless         United States         03-Oct-01           mailed         AT&T Wireless         Canada         24-Jun-02           Tooperation         Cooperation         AT&T Wireless         Treaty         24-Jun-02			-					Information Received in
09/972572         AT&T Wireless         United States         03-Oct-01           malled         AT&T Wireless         Canada         24-Jun-02           Patent Cooperation         Cooperation         AT&T Wireless         Treaty         24-Jun-02								Voice Mails
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mailed AT&T Wireless Canada 24-Jun-02  Patent Cooperation Cooperation 24-Jun-02  AT&T Wireless Treaty 24-Jun-02	20116	00/072572	-	AT&T Wireless	United States	03-Oct-01		Conversations
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02	370.03	091912912						Method and Apparatus for
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02				•				Wireless Protocol
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02								Capability to a Wireless
mailed         AT&T Wireless         Canada         24-Jun-02           Patent Cooperation         Patent Cooperation         AT&T Wireless         Treaty         24-Jun-02								Device, Such as a Wireless
mailed At&I Wireless Catadoa 27-041-02  Patent Cooperation 24-Jun-02  AT&T Wireless Treaty 24-Jun-02					- cpood	24. 1.0.02		Phone
Patent Cooperation AT&T Wireless Treaty 24-Jun-02	577.CA	mailed		A I & I WIreless	Caliada	20.1100		Method and Apparatus for
Patent Cooperation AT&T Wireless Treaty 24-Jun-02					-			Providing Power and
Patent Cooperation Cooperation AT&T Wireless Treaty 24-Jun-02								Wireless Protocol
Cooperation Cooperation 24-Jun-02 AT&T Wireless Treaty					Patent			Capability to a Wireless
PCT/US02/20105 AT&T Wireless Treaty 24-Jun-02		•		-	Cooperation			Device, Such as a Wireless
	577 PCT1	PCT/US02/20105		AT&T Wireless	Treaty	24-Jun-02		Phone

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Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Мате	Date		Wireless Adapter for Use
				Patent Cooperation	24 tru 02		With Prophetary names: Free Car Kits in Support of Multi-Model Mobile Phones
577.PCT2	PCT/US02/20165		AT&T Wireless	Ireary	24-2011-02		
	·		•	Cooperation	24. lin.02		Bluetooth External Module for Car Radio
577.PCT3	PCT/US02/20121		AT&T Wireless	Ireary	70-100-1-2		Method and Apparatus for
							Providing Power and Wireless Protocol Capability to a Wireless
				1 Inited States	31-Dec-01	21-Oct-03	Device, Such as a Wireless Phone
577.US1	10/036188	6636749	AT&I Wireless	Olinea Olarea			Method and Apparatus for
	]: 				·		Provious Proves and Wireless Capability to a Wireless Device. Such as a Wireless
			AT&T Wireless	United States	29-Jui-03		Phone
577.US1.C1	10/630646						Wireless Adapter for Use With Proprietary Hands- Free Car Kits in Support of
	!		AT&T Wireless	United States	31-Dec-01		Muiti-Model Mobile Phones
577.US2	10/036151		2000	1 Inited States	31-Dec-01		Bluetooth External Module for Car Radio
577.US3	10/036109		AT&T Wireless	Olliffed States			System and Method for
				:		<u>.</u>	Providing an Automatic Response to a Telephone Call
585.US	2616507		AT&T Wireless	United States	OCINIST-UE		Method and Apparatus for
586119.03	08/440183	5541977	AT&T Wireless	United States	12-May-95	30-Jul-96	Secure
			ATOT Mireless	United States	23-May-96	19-May-98	Validation/Registration of Analog Cellular Phones
586.US.C2	08/652214	5754952	AIGI WILGIGO				NAM Download Capability
			ATRT Wireless	China P.R.	15-Jun-94	10-0ct-01	Using a Wide-Area Paging System
587.CN	94106449.2	94100449.2	510				NAM Download Capability
			AT&T Wireless		16-Jun-94	18-Feb-00	Using a Wide-Area Paging System
587.JP	6-155408/1994	3035156	2000				

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	Application Number	Patent Number	Owner	Name	Date	Date	Title
┼							A Cellular/PCS Handset NAM Download Capability
	10-1994-0011468	363502	AT&T Wireless	South Korea	26-May-94	24-Aug-02	Using a Wide-Area Paging System
+	201-00-00-01						Cellular/PCS Handset
		·					NAM Download Capability Lising a Wide-Area Paging
	08/700135	5722084	AT&T Wireless	United States	20-Aug-96	24-Feb-98	System
†-							Traffic Information
-	2183284	2181284	AT&T Wireless	Canada	14-Aug-96	27-Jul-99	Estimation and Reporting System
+	7100204	2100201					Traffic Information
•					90		Estimation and Reporting
+	763807	DE69611274D	AT&T Wireless	Germany	Z8-Aug-9b	Z0-Dec-00	System Total of complete
<del></del>			-	European Patent	•		Estimation and Reporting
	96113768.4	763807	AT&T Wireless	Convention	28-Aug-96	20-Dec-00	System
	96113768 4	763807	AT&T Wireless	France	28-Aug-96	20-Dec-00	Traffic Information Estimation and Reporting System
T							Traffic Information
	96113768.4	763807	AT&T Wireless	Great Britain	28-Aug-96	20-Dec-00	Estimation and Reporting System
T							Traffic Information
				1	0000		Estimation and Reporting
1	242430/1996		AT&T Wireless	Japan	13-Sep-95		System
					•		Estimation and Reporting
-	963902	199227	AT&T Wireless	Mexico	05-Sep-96	24-Oct-00	System
	768685	5732383	AT&T Wireless	United States	14-Sep-95	24-Mar-98	Traffic Information Estimation and Reporting System
T							Pager-Controlled Wireless
	10091/97	721050.	AT&T Wireless	Australia	09-Jan-97	05-Oct-00	Radiotelephone
	2192500		AT&T Wireless	Canada	10-Dec-96		Pager-Controlled Wireless Radiotelephone
				European Patent			Pager-Controlled Wireless
	97100336.3		AT&T Wireless	Convention	10-Jan-97		Radiotelephone
	248014007	v	AT&T Miralose	rough	10_lan_97		Pager-Controlled Wireless Radiotelephone
T	1881 10047		2000111	1000			Pager-Controlled Wireless
	08/584417	5737707	AT&T Wireless	United States	11-Jan-96	07-Apr-98	. Radiotelephone

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Title	Automated Wireless-Call Completion Using a Paging Network	Automated Wireless-Call	Completion Using a Paging Network	Automated Wireless-Call	Completion Using a Paging Network	Automated Wireless-Call Completion Using a Paging	Network Automoted Wireless-Call	Completion Using a Paging	Spatial Redundancy in	Cellular Networks	Transition: Selecting the Optimal Cellular Radio Mix	Analog-to-Digital	Transition: Selecting the Optimal Cellular Radio Mix	Analog-to-Digital	Transition: Selecting the Optimal Cellular Radio Mix	Analog-to-Digital Transition: Selecting the	Optimal Cellular Radio Mix	Analog-to-Digital Transition: Selecting the	Optimal Cellular Radio Mix	Analog-to-Digital Transition: Selecting the	Optimal Cellular Radio Mix	Analog-to-Digital	Transition: Selecting the Optimal Cellular Radio Mix	Analog-to-Digital	Transition: Selecting the	Opumai Celiular Naulo
Grant Date	19-Oct-00	-	02-090-00					01-Sep-98		07-Sep-99	09-Jul-02				31-Jul-02		31-Jul-02		31-Jul-02		31-Jul-02					28-Sep-99
Application Date	00 Jan 07	20000	40 Doc 08	10-080-90	10-Jan-97		10-Jan-97	11-Jan-96		08-Sep-97	08-Apr-98	20 100	02-Jun-98		07-Apr-98		07-Apr-98		07-Apr-98		07-Apr-98		9	05-1011-20		03-Jun-97
Country		Australia		Canada	European Patent		Japan	United States		United States	2000	Callada	China P R	:: B	Germany	Toolog Botont	Convention		France		Croat Britain	Clear Cinality		Japan		United States
Owner		AT&T Wireless		AT&T Wireless	TOTA	A LO LA MARGEN	AT&T Wireless	ATOT Micologic	Al & I Wildias	AT&T Wireless		AI&I Wireless	A TO T VAILED	AIGI WIEEESS	AT 8 T Mireless	Score Wilding	AT&T Wireless		AT&T Wireless			Al&i Wireless		AT&T Wireless		AT&T Wireless
Patent		721605		2192513					5802470	5950134		2234322				69806856.4		003317	002217	002217		883317	•			5960339
Application	Jagun Nama	10092/97		2192513		97100337.1	2479/1997		08/584416	9007020		2234322		98109554.2	•	98302715.2		98302715.2		98302715.2		98302715.2		10-152363		08/868403
Docket	Number	591.AU		591.CA		591.EPC	591.IP		591.US	502116		593.CA		593.CN		593.DE		593.EPC		593.FR		593.GB		593.JP		593.115

Docket Number	Application	Patent	C	Country	Application	Grant	Ë
					OSC	Date	Automatic Cellular
				European Patent			Telephone Registration for
594.EPC	97103159.6	793375	AT&T Wireless	Convention	26-Feb-97	26-Nov-03	Number Service
0							Automatic Cellular
	-						Telephone Registration for
594.GB	97103159.6	97103159.6	AT&T Wireless	Groot Britain	76 Ech 07	26 1/2:: 03	Universal Telephone
			2000	Gigal Dillalli	70-LED-97	20-NOV-03	Number Service
-							Automatic Cellular
							lelephone Registration for
594.JP	45001/1997		AT&T Wireless	Japan	28-Feb-97		Number Service
		-	-				Automatic Cellular
		<u> </u>				-	Telephone Registration for
594.KR	10-1997-0006587		AT&T Wireless	Cough Koroo	70 5-10		Universal Telephone
			A LOT WILGIESS	South Roled	Z0-L60-8/		Number Service
							Automatic Cellular
					- <del>-</del>		leiephone Registration for
594.US	08/608232	5960340	AT&T Wireless	United States	28-Feb-96	28-Sen-99	Universal Telephone
							Wireless Communications
				٠			Cellular Architecture for
0.00							Improving Communications
292.03	08/862095	6002935	AT&T Wireless	United States	22-May-97	14-Dec-99	Resource Allocation
							Wireless Communications
							Cellular Architecture for
595.US.C2	09/893869		AT&T Wireless	United States	20 fun 04		Improving Communications
	500000		AIGH WILEIGS	Oillieu Siales	10-Unc-67		Resource Allocation
			-				Method for Predicting the
		-					Station In a Mobile
596.US	08/941231	6052598	AT&T Wireless	United States	30-Sep-97	18-Apr-00	Communications Network
							Method for Self-Calibration
597 CA CD1	2204815	2204045	AT 0 T 14	2			of a Wireless
	201012	2204013	Algi Wildiess	Callaca	00-May-97	12-Aug-03	Mothed for Safe Calibration
		٠.				•.	of a Wisoland
597.CA.CP1D1	2350939	-	AT&T Wireless	Canada	08-Mav-97		Comminication System
			-				Method for Self-Calibration
							of a Wireless
597.CA.CP1D2	2352594		AT&T Wireless	Canada	08-May-97		Communication System
				European Patent			Wireless Communication System With Adaptive
38/.EPC.D1	1116398.7		AT&T Wireless	Convention	08-Jul-01		Channel Allocation

Country         Application Date Date Date Date Date Date Date Date							-	
Number	4010	Application	Patent		Country	Application Date	Graffi Date	Title
24.0ct-97	Number	Number	Number	Owner	Мате			Method for Self-Calibration of a Wireless
10-140-01   10-1				•		24-Oct-97		Communication System
10-Jul-01 10-Jul-02 10-Jul-03 10-Jul-03 10-Jul-04 10-Jul	597.IP.CP1	291857/1997		AT&T Wireless				Method for Self-Calibration
2001-206584 AT&T Wireless Japan 10-Jul-01  104/Jul-01  108/J36271 6473623 AT&T Wireless United States 25-Oct-96 29-Oct-02  1133622 6775549 AT&T Wireless United States 08-Oct-02 10-Aug-04  12231928 AT&T Wireless Canada 12-Mar-98 15-Feb-03  2231928 AT&T Wireless Canada 12-Mar-98 15-Feb-03  98109550.X AT&T Wireless Germany 02-Mar-98 15-May-04  98301494.5 883315 AT&T Wireless Convention 02-Mar-98 19-May-04  98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04  98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04  98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04								of a Wireless Communication System
133621   6473623   AT&T Wreless   United States   25-Oct-96   29-Oct-02	,	10000		AT&T Wireless	Japan	10-101-01		Method for Self-Calibration
Delta States   Duited States	597.JP.D1	Z001-Z00304		:		26 Oct 06	29-Oct-02	of a Wireless Communication System
C1         1133622         6775549         AT&T Wireless         United States         08-Oct-02         10-Aug-04           09/222894         6486699         AT&T Wireless         United States         30-Dec-98         17-Dec-02           2231928         2231928         AT&T Wireless         Canada         12-Mar-98         16-Feb-03           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         19-May-04           98301494.5         883315         AT&T Wireless         Germany         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04	597.US.CP1	08/736871	6473623	AT&T Wireless	United States	25-20-57		Method for Self-Calibration of a Wireless
1133622         6775349         AT&T Wireless         United States         30-Dec-98         17-Dec-02           09/222894         6496699         AT&T Wireless         Canada         12-Mar-98         16-Feb-03           2231928         AT&T Wireless         China P.R.         02-Jun-98         18-Feb-03           98109550.X         AT&T Wireless         Germany         02-Jun-98         19-May-04           98301494.5         883315         AT&T Wireless         Convention         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04				AT&T Wireless	United States	08-Oct-02	10-Aug-04	Communication System Method for Self-Calibration
17-Dec-02   Corrected	597.US.CP1C1	1133622	6775549	Aldi Wilding				of a Wireless
09/22/894         6496699         A1&1 Wireless         Canada         12-Mar-96         18-Feb-03         Profit           2231928         2231928         AT&T Wireless         China P.R.         02-Jun-98         19-Feb-03         N           98109550.X         AT&T Wireless         China P.R.         02-Jun-98         N         P           98301494.5         883315         AT&T Wireless         Germany         02-Mar-98         19-May-04         N           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04         N           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04         N           98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04         N           98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04         N           19404.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04         N				000 C C C C C C C C C C C C C C C C C C	United States	30-Dec-98	17-Dec-02	Communication System
Table	597.US.D1	09/222894	6496699	A1&1 Wireless		ļ		Providing Access to a
State   Stat								Telecommunications
2231928				AT&T Wireless	Canada	12-Mar-98	18-Feb-03	Method and System for
198301494.5   1983315   198301494.5   1983315   198301494.5   1983315   198301494.5   1983315   198301494.5   1983315   1983	598.CA	2231928	2231928	5			·	Providing Access to a
98109550.X   AT&T Wireless   China P.R.   02-Jun-98   N M M M M M M M M M M M M M M M M M M								Telecommunications
98301494.5 883315 AT&T Wireless Germany 02-Mar-98 19-May-04 N European Patent Convention 02-Mar-98 19-May-04 N AT&T Wireless Convention 02-Mar-98 19-May-04 N AT&T Wireless France 02-Mar-98 19-May-04 I AT&T Wireless Great Britain 02-Mar-98 I AT&T Wireless Britain 03-Mar-98 I AT&T Wireless Great Britain 03-Mar-98 I AT&T Wireless Britain Britain 03-Mar-98 I AT&T Wireless Britain Brita			-		China D R	02-Jun-98		Network
Second	NO 865	98109550.X		AT&I WIREIESS			<del></del>	Method and System for
C         98301494.5         883315         AT&T Wireless         Germany         02-Mar-98         19-May-04         N           C         98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04         N           B         98301494.5         883315         AT&T Wireless         France         02-Mar-98         19-May-04           B         98301494.5         883315         AT&T Wireless         Great Britain         02-Mar-98         19-May-04								Telecommunications
Second Section						00 -51 00	19-May-04	Network
European Patent Convention 02-Mar-98 19-May-04 N Convention 02-Mar-98 N N N Convention 02-Mar-98 N N N N N N N N N N N N N N N N N N N	1	9 707 7000	883315	AT&T Wireless	Germany	02-mar-90	) (Simple	Method and System for
98301494.5 883315 AT&T Wireless Convention 02-Mar-98 19-May-04 Nay-04 19-May-04 19-May	598.DE	98301494.3	2000					Providing Access to a
98301494.5 883315 AT&T Wireless Convention 02-Mar-98 19-May-04 19-					·   European Patent		40 1401 04	Network
98301494.5 883315 AT&T Wireless France 02-Mar-98 19-May-04 98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04 19-May-04				AT&T Wireless	Convention	02-Mar-98	18-May-04	Method and System for
98301494.5 883315 AT&T Wireless France 02-Mar-98 19-May-04 19-May-04	598.EPC	98301494.5	883315					Providing Access to a
98301494.5 883315 AT&T Wireless France 02-Mar-98 19-May-04 98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04						-		Telecommunications
98301494.5 883315 AT&T Wireless France Trance Transcriptor Transcripto		•			000	02-Mar-98	19-May-04	Network
98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04	9	08301494.5	883315	AT&T Wireless	rrance			Method and System for
98301494.5 883315 AT&T Wireless Great Britain 02-Mar-98 19-May-04	7L.08C							Telecommunications
98301494.5 883315 AT&T Wireless Great Britain UZ-Iwar-30			-			80 201 00	19-May-04	Network
96301454.5 01-Apr-98		00204404 5	R83315	AT&T Wireless	Great Britain	02-Mai-20		Method and System for
O1-Apr-98	598.GB	98301484.0	2000					Providing Access to a
India   01-Apr-98								Newnrk
				AT&T Wireless	India	01-Apr-98		Memori

Application						
Nimbor	Number	Owner	Name	Date	Date	Title
MULLIDE	Maine					Method and System for
				-		Providing Access to a
				27_M21_08		Nework
10-145267		AT&T WIREIGSS	Japan	21-IVIGY-00		Method and System for
				·		Providing Access to a
	-					Telecommunications
084354		AT&T Wireless	Mexico	01-Jun-98		Network
100		2000				Method and System for
						Providing Access to a
						Telecommunications
08/868407		AT&T Wireless	United States	03-Jun-97		Network
10000						International Roaming
					-	Service for Permitting a
						Cellular/Wireless
						Telephone Instrument to
						Access Different Wireless
						Telephone Network
		ATOT 14/1-01-00	Broyil	21-4110-00		Systems
0003715-0		AIGH WIEGESS	DIGE	20-R0U-17		International Roaming
	•					Service for Permitting a
		_				CeltularWireless
			•			Telephone Instrument to
						Access Different Wireless
				-		Telephone Network
		ATPT Mireloce	Canada	17-Aug-00		Systems
2316088		AIQI WIIGIGSS	- California	, and the second		International Roaming
						Sewice for Permitting a
•						CellularWireless
	-		-			Telephone instrument to
					•	Access Different Wireless
			Furonean Patent			Telephone Network
	•	AT9T Wireless	Convention	16-Jun-00		Systems
112/46.3		2000				International Roaming
						Service for Permitting a
			-			CettularWireless
		34				Telephone Instrument to
					·-	Access Different Wireless
-			_			Telephone Network
070730		AT&T Wireless	Japan	25-Aug-00		Systems
2000-234010		5				International Roaming
						Service for Permitting a
		-		•		Cellular/Wireless
	0011	ATOT Wilrologo	1 Instead Chatee	27-Ain-99	22-Jun-04	Telephone Instrument to

							•••
Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Zalla			Access Different Wireless Telephone Network
				,			Systems
							International Roaming
			•				Service for Permiumy a
	•						Telephone Instrument to
							Access Different Wireless
							Telephone Network
					70		Systems
	•		AT&T Wireless	United States	1/-Jun-04		Method and Apparatus for
600.US.C1	maileo						Navigation Using a
	-						Portable Communication
				1 Inited Chates	22-Dec-99	13-Nov-01	Device
01100	09/469266	6317684	AT&T Wireless	Office States			Method and Apparatus for
902.03							Enhanced 911 Location
-						44, him-02	Wireless System
		6404288	AT&T Wireless	United States	21-Jan-00	20-1100-11	Method and Apparatus for
603.US	09/489477	0404300					Enhanced 911 Location
							Using Power Control in a
				Chatter Chatter	24-May-02	08-Jul-03	Wireless System
. 10 01 000	10/155380	6590533	AT&T Wireless	United States	- Cam - 2		Method and Apparatus for
903.U3.C1	2000101						Enhanced 911 Location
		·					Using Power Control III a
				1 Inited States	06-Jun-03		Wireless System
(1/1/)	10/456052		AT&T Wireless	Umited States			Intelligent Roadway
603.U3.C1(1)	2000101			11-itod Chafae	15-Nov-02	01-Jun-04	System
70 91 700	10/295293	6744383	AT&T Wireless	United States			Enhanced Communication
04.03.01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Service for Predicting and
							Handling Collection
			AT&T Wireless	United States	06-Jul-01		
605.US	09/900773			European Patent			Dalacharing dellaction
			AT&T Wireless	Convention	18-Feb-03		
606.EPC	3743137.6			Patent			
				Cooperation	40 Cob 03		Secure Online Purchasing
100	DCT/  IS03/04650		AT&T Wireless	Ireary	20-09-101		Segure Online Purchasing
500.70	20000101		AT&T Wireless	United States	22-Feb-02		or o
606.US	10/080988		2001-101-0	United States	30-May-02		Secure Online Purchasing
606.US.CP1	10/160656		AT&I WIFEIESS				A Call Queue in a Wireless
			AT&T Wireless	United States	13-Dec-01		Device
607.US	10/017629		AIGI MIIGIGS	<u> </u>			
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Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
608.US	10/209754		AT&T Wireless	United States	31-Jul-02		Efficient Synchronous and Asynchronous Database Reolication
609.PCT	PCT/US03/16652		AT&T Wireless	Patent Cooperation Treaty	23-May-03		System and Method for Providing a Digital Rights Scheme for Browser Downloads
609.US	10/160695		AT&T Wireless	United States	30-Mav-02		System and Method for Providing a Digital Rights Scheme for Browser Douglastes
614.US	10/259558		AT&T Wireless	United States	25-Sep-02		Virtual Subscriber Network
618.US	1387467		AT&T Wireless	United States	28-May-04		
621.US	10/155917		AT&T Wireless AT&T Wireless	United States	20-Oct-03 24-May-02		Biometric Authentication of
622.PCT	PCT/US04/07235		AT&T Wireless	Patent Cooperation Treaty	09-Mar-04		Multi-Standard Prepaid
622.US	-445686		AT&T Wireless	United States	18-Mar-03		Multi-Standard Prepaid Communication Services
625.PCT	PCT/US03/36316		AT&T Wireless	Patent Cooperation Treaty	12-Nov-03		Prepaid Telecommunications System
625.US	10/295233		AT&T Wireless	United States	14-Nov-02		Prepaid Telecommunications System
628.US	10/840810		AT&T Wireless	United States	07-May-04		System and Method for SMS Text Routing
630.US	10/282742		AT&T Wireless	United States	28-Oct-02	;	Text Abbreviation Methods and Apparatus and Systems Using Same
632.US	10/282909	-	AT&T Wireless	United States	28-Oct-02		Speech to Message Processing
633.US	mailed	-	AT&T Wireless	United States	19-Feb-03		Interrogate Response Communication (IRC)
634.US.CP1	10/279170		AT&T Wireless	United States	23-Oct-02		interactive Education Tool
635.US	10/634977		AT&T Wireless	United States	04-Aug-03		Receiver Test System
636.US	10/253403		AT&T Wireless	United States	23-Sep-02		Cell Planning Methods and Apparatus, and Networks

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Docket	Application	Patent		Country	Application Date	Grant	Title
Number	Number	Number	Owner				Configured Based on Same
							Methods and Apparatus for
				Chates Clates	22-Jul-02		a Communication
638.US	216500		AT&T Wireless	OF III GO CIGNOS			Conditional Application
					0		Invocation in a Wireless
2010	10/324494		AT&T Wireless	United States	19-Dec-02		Authomated Device
20.620							Behavior Management
							Based on Network
				11-ited Ctatos	19-Dec-02		Conditions
640.US	10/324354		AT&T Wireless	United States			Automated Device
							Behavior Management
							Based on Preset
			AT&T Wireless	United States	19-Dec-02		Control of Security of
641.US	10/324159						Fase-of-Use Sensitivity for
							a Wireless Communication
				1 Inited Chates	10-Dec-02		Device
642.US	10/324870		AT&T Wireless	Olilleu Orares	2		Verification System for
							Facilitating Transactions
					· ·		Via Comunication
				•.			Mothod Mothod
	00730077	<u>.</u>	AT&T Wireless	United States	20-Dec-02		General Purpose
644.US	10/325400						Automated Activation and
•				United States	31-Oct-03		Provisioning Technologies
645.US	10/700301		AT&I Wireless	OINIGO CIGNO			Self-Activation via Wired
			AT&T Wireless	United States	01-Nov-02		Web and Device
645P.US	60/423224		Sign Microsoft				Network Data Quality
					200		Measurement
01.010	4770374		AT&T Wireless	United States	31-080-02		Networks and Methods
646.US	11(30)						Integrating Digital Mobile
••			200	I Inited States	23-May-03	,	Standards
649.US	10/445173		Al&I Wireless	O DOMINO			interface for a Multi-
			AT&T Wireless	United States	12-Feb-03		Messaging System
652.US	10/364421				,		Autopopulation of Address
0	401246407		AT&T Wireless	United States	16-Jan-03		Book Entres
653.US	10/34043/						

Docket	Application	Patent	,	Country	Application	Grant		
Number	Numper	Number	Owner	Name	Date	Date	Title	
			-	Dotont			Location Determining	guin
				ratent			System for Wireless	SS
		•	_	Cooperation			Network and Associated	ociated
655.PCT	PCT/US03/18449		AT&T Wireless	Treaty	10-Jun-03		Method (Friend Finder)	nder)
							System for Providing	ing
		_				•	Location-Based Services in	ervices in
			-				a Wireless Network, Such	rk, Such
Ç			:				as Locating Individuals and	duats and
655.US	10/324984		AT&T Wireless	United States	20-Dec-02		Coordinating Meetings	tings
					-		System for Providing	ling
							Location-Based Services in	ervices in
							a Wireless Network, Such	rk, Such
			-				as Modifying Locating	ating
							Privileges Among	_
							Individuals and Managing	anaging
							Lists of Individuals	so.
							Associated with Such	당
655.US1	10/325566		AT&T Wireless	United States	20-Dec-02		Privileges	
							Apparatus and Systems for	stems for
							Providing Location-Based	n-Based
							Services Within a Wireless	Wireless
655.USZ	10/325270		AT&T Wireless	United States	20-Dec-02		Network	
							Data Structures and	D.
				•			Methods for Location-	tion-
				:		•	Based Services Within a	Vithin a
655.US3	10/325032		AT&T Wireless	United States	20-Dec-02		Wireless Network	
							Method for Providing	ing
			-		-		Location-Based Services in	ervices in
*				-			a Wireless Network, Such	rk, Such
655.US4	10/325322		AT&T Wireless	United States	20-Dec-02		as Varying Levels of	<u></u>
				Patent			200	Ī
				Congration	-			-
658.PCT	PCT/US03/35439		AT&T Wireless	Treaty	24-Oct-03		Communication Events	yents
							Profile Driven Response to	nonse to
658.US	10/281651		AT&T Wireless	United States	28-Oct-02	*	Communication Events	vents
011							Simplified Wireless Device	s Device
665.US	10/617437		AT&T Wireless	United States	11-Jul-03		Pairing	
•				Patent			System and Method for	od for
				Conneration			Integrating Local-Area and Wide Area Wilteless	Area and
668.PCT	PCT/US03/33513		AT&T Wireless	Treaty	23-Oct-03		Networks	200

40,000	Application	Patent		Country	Application	<b>Grant</b> Date	Title
Docket	Number	Number	Owner	Name	Date		System and Method for
							Wide-Area Wireless
			AT&T Wireless	United States	20-Dec-02		System and Method for
98.US	-321138		Alai Widees	Patent			Content Delivery Using
				Cooperation			Wireless Network
369.PCT	PCT/US03/33593		AT&T Wireless	Treaty	23-00-03		System and Method for
							Alternate Data Paths in a
1			AT&T Wireless	United States	20-Dec-02		System and Method for
869.US	10/324613			Patent	•		Delivering Data Services in
				Cooperation	22.0~4.03		Networks
670.PCT	PCT/US03/33594		AT&T Wireless	Ireary	43-Oct-02		System and Method for
							Integrated Wireless
			:	1 Laited Chates	20-Dec-02		Networks
670.US	10/324667		AT&T Wireless	Omieu States			Improved Delivery of
			AT&T Wireless	United States	02-Jan-03	1	Jo Marijo De Promost
679.US	2428042				02, 120-03		Improved Delivery of Network Services
680 US	2428773		AT&T Wireless	United States	20-180-70		Improved Delivery of
2000			AT&T Wireless	United States	02-Jan-03		Metwork Services
681.US	2578888		2000	0 7 10	02_120±03	<del></del>	Improved Delivery of Network Services
682.US	2574139		AT&T Wireless	United States			
	·				07 800		Improved Delivery of Network Services
685.US	10/410662		AT&T Wireless	United States	25-190-10		Improved Delivery of Network Services
SILIS	10/410663		AT&T Wireless	United States	0/-Apr-03		One Button Access to
00.000				Linited States	07-Jul-03		Network Services from a Remote Control Device
80.08	10/612970	-	AIGI WIEEESS			· ·-	Automatic Device
				Seteta States	15-Sep-03		Network Services
691.US	2006188		AT&1 Wireless	District Control	7		Identification of Silvi Bases. Device
691.US.CP1	10/833412		AT&T Wireless	United States	27-Apr-04		

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Title	Distributed Profile Storage and Management in a Telecommunication	7. Company	Application of Dynamic Profiles to the Allocation	and Configuration of	Network Resources	Device and Method for Improved Text Entry on an	Alphanumeric Keypad	Highly Bandwidth-Efficient Communications		Highly Bandwidth-Efficient	Highly Bandwidth-Efficient	Communications	Highly Bandwidth-Efficient	Communications	Communications	Priority Messaging Method	for a Discrete Multitone Spread Spectrum	Communications System	Method of Polling Second	Quality and Maintenance	Data in Discrete Multitone	Spread Spectrum	Communications System	Array for a Discrete	Multitone Spread Spectrum	Communications System	Vertical Adaptive Antenna	Array for a Discrete Multitone Spread Spectrum	Communications System	Vertical Adaptive Antenna	Array for a Discrete Multitone Spread Spectrum	
	Distribu and Ma Teleco	Network	Profiles	and C	Netwo	Device	Alphar	Highly Comm		High	Holi	Comm	Highly			Priorit	for a [ Sprea	Comu	Metho	Ouall	Data	Sprea	Comi	Array	Multit	S	Vertic	Aray Kalay	Š	Vertic	Array	
Grant Date			-										00	19-Mar-02				16-Sep-03				:	12-Nov-02			29-Jul-03			24-Jun-03		24-Aug-04	6
Application Date		16-Jun-03	-		16-Jun-03	,	27-Jun-03	24-Feb-98		90 40	-1ac-30	24-Feb-98		18-Dec-97	03-Aug-01			28-Nov-00					28-Nov-00			05-Aug-98		101	10-Dec-01		08-Mav-03	20 (201)
Country A		United States 16-	_		United States 16		United States 27.			atent	Convention 24	Japan 24		United States 18	United States 03			United States 28					United States 28			United States 0		- <u>-</u>	1 Inited States 16	T	Chaited States	
Owner		AT&T Wireless U			AT&T Wireless		AT&T Wireless				AT&T Wireless	AT&T Wireless		AT&T Wireless (	AT&T Wireless	-		AT&T Wireless		_			AT&T Wireless			AT&T Wireless			AT&T \Allreloes	AIGI WIIGIGSS		Alal Wireless
Patent														6359923				RE21851	100 100				6480522			8400778	2 10000			6264144		6782039
Application	iagriph.	1027337			838873		10/609043	0.000000	2202023		98910043.3	10.535084	100000	08/993721	647744	247744		407840	197042				198207			00/100738	03/120/30			10/01/903		10/435304
Docket	Number	692.US			693.US		511909		20.00		700.EPC	01 002	16.007	700.US.C1	FOOTO STI OOE	100.03.01001		200110 04046	700.03.01013				700.US.C1D16			704 110 0444	(01:09:01(1)			701.US.C1(4)		701.US.C1(5)

Application P. Number NL	Datent		Country	Application		
			Namo	Date	Date	Title
	Number	Owner				Communications System
						Vertical Adaptive Antenna
		•				Multitone Spread Spectrum
			1 Laited Chates	20-hil-04		Communications System
-		AT&T Wireless	1			Method for Frequency
				03.Eeb.08	09-Apr-02	Division Duplex Communications
2278852	52	AT&T Wireless	Canada	02-180-20		Method for Frequency
			European Patent	03-Feb-98		Division Duplex Communications
		AT&T Wireless	COLLAGINGI			Method for Frequency
				03-Feb-98		Communications
		AT&T Wireless	Japan			Method for Frequency
				03.Feb.98	02-Aug-02	Division Duplex Communications
209442	2	AT&T Wireless	Mexico	25.25		Method for Frequency
•			Safety Polici	06-Feb-97	03-Aug-99	Communications
08/796584 5933421	121	AT&I WIREIESS	Ollinga Orango			Method for Frequency
			:	40 000	ne-May-03	Division Duplex Communications
09/294174 6560209	509	AT&T Wireless	United States	26-10V-81		Method for Frequency
						Division Duplex
<del></del>		AT&T Wireless	United States	07-Mar-03		Communications
10/383976		500				Having Reduced Power
			United States	06-Feb-97	04-701-00	Operating Mode
08/796586 6085114	114	Aldi Wireless				Remote Wireless Unit
				0000	04-Apr-00	Operating Mode
09/222895   6047200	200	AT&T Wireless	United States	30-060-30	5	Out of Channel Cyclic
						Redundancy Code Method
					_	Spread Special
_		*		90 1	04-Anr-03	Communications System
2281818	1818	AT&T Wireless	Canada	24-F6D-90	2010	Out of Channel Cyclic
						Redundancy Code Method   for a Discrete Multitone
			European Patent			Spread Spectrum
08011401.2		AT&T Wireless	Convention	24-Feb-98		

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
204 MX							Out of Channel Cyclic Redundancy Code Method for a Discrete Multitone Spread Spectrum
705.US	08/803833	5896425	AT&T Wireless	Mexico	24-F6D-98	17-Jul-02	Communications System Non-Uniformly Spaced Tones for Synchronization
707.US	08/806508	5864543	AT&T Wireless	United States	24-Feb-97	26-lan-99	Transmit/Receive
707.US.C1	09/095748	6175555	AT&T Wireless	United States	11-Jun-98	16-Jan-01	Transmit/Receive Compensation
							Method for Linearization of RF Transmission Electronics Using Basehand Pre-Distortion in
708.US	08/804615	5872814	AT&T Wireless	United States	24-Feb-97	16-Feb-99	T/R Compensation Pilot Signats
709.US	08/806507	6002664	AT&T Wireless	United States	24-Feb-97	14-Dec-99	Method for Gaining Access to a Shared Medium Which Improves Over the Slotted Aloha Scheme
710.US	08/804614	5889814	AT&T Wireless	United States	24-Feb-97	30-Mar-99	Transmit/Receive Compensation for a Dual FDD/TDD Architecture
711.US	08/803832	5909641	AT&T Wireless	United States	24-Feb-97	01-Jun-99	Transmit/Receive Switch
713.US	08/804616	00.23700	AT&T Wireless	United States	24-Feh-97	13_11_0	Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications System
							Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications
5.60.62	US/353048		Al & I Wireless		15-V0V-C1		System Adaptive Weight Update Method for a Discrete Multitone Spread Spectrum
713.US.C2	09/299079	6160839	AT&T Wireless	United States	26-Apr-99	12-Dec-00	Communications System

Dockot	Application	Patent		Country	Application	Grant	THE	
Nimber	Number	Number	Owner	Name	Date	Date	Adaptive Weight Update	ate
Mulipa				-			Method and System for a	or a
	,						Discrete Multitone Spread	read
							Spectrum Communications	215
		2100012	AT&T Wireless	United States	31-Oct-00	18-Jun-02	Javopton Pineline	T
713.US.C2C1	09/699361	0400010					Mention y ripolitic	
		0007000	AT&T Wireless	United States	01-May-97	16-Mar-99	Management System	
715.US	-646995	5884300	5				FUU FORWARD LILIN	- 600
							Beamforming Memod for a	 5
							FUU Communications	
		900000	AT&T Wireless	Canada	23-Feb-99	31-Dec-02	System System	T
717.CA	2262358	2262338	2000				FUU Forward Cilin	- (50)
							Beamforming Method for a	
				European Patent				
		70070	AT&T Wireless	Convention	25-Feb-99	04-Aug-04	System County Link	
717.EPC	99301378.8	940934	2000				POD Forward Link	- Lora
							FDD Communications	200
						11 000	Svefem	 !
		1001010	AT&T Wireless	United States	05-Mar-98	1/-OCI-00	Mos Ostimal Low	
717.US	09/035286	0134501	3				Near-Optimal Low-	
							Complexity Decoding of	
							Cived Mireles	 <u>:</u>
		<del></del>			į		Applications	
			ATRT Mirelacs	Canada	10-Dec-98	06-Aug-02	Applications	
720.CA	2255464	2255464	AIGI WIRERSS			-	Near-Optimal Low-	
							Complexity Decouling of	
				-			Space-Time Codes for	
							Fixed Wireless	
	•				17-Dec-98		Applications	
ט טני	60823326 3-08	98124231.6	AT&T Wireless	Germany			Near-Optimal Low-	
120.DE				***			Complexity Decoding of	o go
							Space-Time Codes for	- TO
				European Patent			Fixed Wireless	
				Calculation of the calculation o	17.Dec.98	21-Apr-04	Applications	
001	0812/231 6	938194	AT&T Wireless	Convention	2000-11		Near-Optimal Low-	
/20.EP.C	3012423136						Complexity Decoding of	ng of
							Space-Time Codes for	for
				European Patent			Fixed Wireless	
				Caropation	17.Dec-98		Applications	
720 FPC 01	4009318.9		AT&T Wireless	COLINGIA			Near-Optimal Low-	•
120							Complexity Decoding of	ing or
							Space-Time Codes for	20.
							Fixed Wireless	
			20010-1141	France	17-Dec-98		Applications	1
720.FR	98124231.6		Alai Wireiss	201101				
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Docket Number	Application	Patent		Country	Application	Grant	
		Mumber	Owner	Name	Date	Date	Title
							Near-Optimal Low-
						<del>-</del> -	Space-Time Codes for
720.GB	98124231.6		ATOT Mindian				Fixed Wireles's
			ATOT WIEGESS	Great Britain	17-Dec-98		Applications
							Near-Optimal Low-
	<u> </u>				-		Complexity Decoding of
720.MX	9810841						Space-Time Codes for
			AT&T Wireless	Mexico	16-Dec-98		Applications
		-					Near-Optimal! Low-
							Complexity Decoding of
31.022							Space-Time Codes for
120.03	-610075	6188736	AT&T Wireless	United States	21-Apr-98	13.Eeb.01	Fixed Wireless
						10-08-1-01	Applications
							Complexity Decoding of
		-					Space-Time Codes for
720.US.C1	09/690542	6470043	AT&T Wireless	I Inited Chates			Fixed Wireless
			יייי אוופופס	Office States	17-Oct-00	22-Oct-02	Applications
	-		-				Near-Optimal Low-
							Complexity Decoding of
720.US.C1(1)	10/234407	G74163E					Space-Time Codes for
		0741033	AT&T Wireless	United States	03-Sep-02	25-May-04	Applications
							Near-Optimal Low-
							Complexity Decoding of
100 01 001							Space-Time Codes for
(20.09.C1(2)	10/838553		AT&T Wireless	United States	/04-May-04		Fixed Wireless
							Transmitter Diversity
721.CA	2303388		AT&T Wireless	Canada	31.0.00		Technique for Wireless
					OS ROLL		Communications
721 CA D1	2405075				_		Transmitter Diversity
	2402013		AT&T Wireless	Canada	31-Aug-98		Communications
				-	•		Transmitter Diversity
/21.CL	1060-2003		AT&T Wireless	Chile	27-May-03		Technique for Wireless Communications
721.DE1	29824763.1	29824763.1	AT&T Wireless	Germany	31-410-08	<u> </u>	Sender for Wireless
						20110001	Communications
/21.DE2	29824760.7	29824760.7	AT&T Wireless	Germany	31-Aug-98	13-Jun-02	Receiver for Wireless Communications

et 2 2	Application Number 29824761.5	Patent Number		Country	Application Date	Grant	Title
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	pplication  Number 24761.5	Number		Name	Date	$\dagger$	Ser Mirologo
- R	Number 24761.5 24765.8		Owner			_	System for will eless
	24765.8			3	31-Aug-98	13-Jun-02	Communications
	24765.8	29824761.5	AT&T Wireless				Receiver for Wireless
	24765.8		and city to be	Germany	31-Aug-98	13-Jun-02	Communications Flectronic Circuit for a
		29824765.8	Alai Wildias				Sender for Wireless
			Salesia Tota	Germany	31-Aug-98	13-Jun-02	Transmitter Diversity
	29824762.3	29824762.3	AIGI WIIGIGSS				Technique for Wireless
_			ATRT Wireless	Germany	31-Aug-98	25-Jun-03	Communications Transmitter Diversity
721.DE6 69	69815869.5	1016228		European Patent			Technique for Wireless
	1	4046238	AT&T Wireless	Convention	31-Aug-98	co-inc-cz	Transmitter Diversity
721.EPC 98	98944605.9	1010220		European Patent	;		Technique for wireless Communications
			AT&T Wireless	Convention	31-Aug-98		Transmitter Diversity
721.EPC.D1 30	3010810.4						Technique for Wireless
			AT&T Wireless	France	31-Aug-98	25-Jun-03	Transmitter Diversity
721.FR 9	98944605.9	1016228	100				Technique for Wireless
				Crost Britain	31-Aug-98	25-Jun-03	Communications
721 GB 8	98944605.9	1016228	AT&T Wireless	Great Ornain		ļ	Technique for Wireless
					40_hul_03	10-Dec-03	Communications
721 GF	880968	PI3127	AT&T Wireless	Georgia	20.00		Transmitter Diversity Technique for Wireless
					24.Eoh.04		Communications
	4101312 5		AT&T Wireless	Hong Kong	64-1 00 00		Transmitter Diversity Technique for Wireless
77.17.					24 0.0.08		Communications
	2573		AT&T Wireless	Mexico	oc-Roy-10		Transmitter Diversity Trachnique for Wireless
721.MX					90	06-Feb-01	Communications
		C10E7E8	AT&T Wireless	United States	0/-May-90		Transmitter Diversity
721.US	2479512	0100200					Technique for Wireless
		*		1 Inited States	05-Dec-00	10-Aug-04	Transmitter Diversity
721.US.C1	2686604	6775329	Al&i Wireless				Technique for Wireless
				Cototo Ctotos	22~lun-04		Communications
724 HS C1(1)	10/873567		AT&T Wireless	Oulted States			Method and Apparatus for
		6653237	AT&T Wireless	United States	02-Dec-98	Z2-Apr-03	Veliling Cilit
722.US	2022958	0220521		l	:		

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I difi	Method for Synchronous	Communication Medium	Method for Estimating	Changes in Product Life for a Redesioned Product	Low Complexity Maximum	Likelihood Detection of	Concatenated Space	Codes for Wireless	Applications	Low Complexity Maximum Likelihood Detection of	Concatenated Space	Codes for Wireless	Applications	Low Complexity Maximum	Constitution Defection of	Codes for Wireless	Applications	Low Complexity Maximum	Likelinood Detection of Concatenated Space	Codes for Wireless	Applications	Low Complexity Maximum	Likelihood Detection of	Concatenated Space Codes for Wireless	Applications	Low Complexity Maximum	Likelihood Detection of	Concatenated Space	Codes for Wireless Applications	Low Complexity Maximum	Likelihood Detection of	Concatenated Space	Codes for Wireless Applications	Low Complexity Maximum	Ukelinood Detection of Concatenated Space	
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Grant								18 Ech 02	10-02-03							•••						-			**		:		19-Sep-03						31-Dec-02	
Application Date		02-Dec-98		25-Apr-00				16.Oct.08	06-100-01				16-Oct-98				16-Oct-98				16-Oct-98				14-Aug-03				16-Oct-98				21-Apr-03		06-Oct-98	
Country		United States		United States				Canada	200100	-	٠		Canada			European Patent	Convention	•			Japan				Japan				Mexico				Mexico		United States	
Owner		AT&T Wireless		AT&T Wireless				AT&T Wireless					AT&T Wireless			-	AT&T Wireless				AT&T Wireless				AT&T Wireless	•			AT&T Wireless				AT&T Wireless		AT&T Wireless	
Patent Number			,			•		2276207			-					-													216468						6501803	
Application Number		2023689	•	09/557672				2276207				000777	2411286				98953654.5			. (	45962				2003-298814				996086		-		PA/a/2003/003469		09/167422	
Docket Number		723.US		729.US				731.CA	·			734 CA D4	10.45.16			200	/31.EPC	-		2	dr.18/				731.JP.D1				731.MX				731.MX.D1		731.US	

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Docket	Application	Patent		Country	Application	Date	Title
Plein hor	Nimber	Number	Owner	Name			Codes for Wireless
Number							Applications
							Low Complexity Maximum
							Concatenated Space
							Codes for Wireless
					3		Applications
	!	-	AT&T Wireless	United States	03-Dec-01		I ow Complexity Maximum
731.US.D1	1167225						Likelihood Detection of
							Concatenated Space
							Codes for Wireless
					20.00		Applications
	1110005		AT&T Wireless	United States	30-080-08		Method for Combining
(31.05.0101	1100000						Communication Beams in
						22 425 02	System
			AT&T Wireless	United States	30-Apr-99	43-MJI-04	Method for Combining
732.US	09/303266	6377783					Comminication Beams in
	٠						a Wireless Communication
•					9		System
			AT&T Wireless	United States	16-Jan-02		Method for Location-
732.US.C1	10/046243				00 01 70		Based Asset Management
0.00	-544696		AT&T Wireless	United States	04-2011-99		Method for Location-
/33.03	20010			1 Inited Chatee	14.Sep-04		Based Asset Management
733 US C1	mailed		AT&T Wireless	Office States			Method and Apparatus for
100000							Vibration and Temperature
		4	A TOT Missiones	United States	13-May-99	10-Dec-02	Isolation
734.US	09/311820	6491528	AIGI WIIBIBS				Maximum Kauo
		0720370	AT&T Wireless	United States	17-Sep-98	01-OCI-02	Maximum Ratio
735.US	09/156066	0428740					Transmission
0	40/1774E4		AT&T Wireless	United States	13-2011-05		Method for Error
(33.03.01	2						Compensation in an Ordin
			- and with the -	United States	27-May-99	27-Aug-02	System With Diversity
736.US	09/321457	644222	AI&I WIIBIBS				Compensation in an OFDM
					77		System With Diversity
	6799679		AT&T Wireless	United States	24-Jun-02		Method for Error
736.US.C1	10/1/6643						Compensation in an OFDM
				1 Inited States	21-May-04		System With Diversity
736 US.C1(1)	-642186		AT&I WIRBIESS	CONTROL OF THE	24 1425.00		
737 116	09/535365		AT&T Wireless	United States	Z4-Mai -00		Method for Improving
137.03				-	23 May 00	<u></u>	Efficiency in a Time
738.AR	102506		AT&T Wireless	Argentina	20-tamp-02		
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	Title	Sharing Network	Method for Improving Efficiency in a Time	Sharing Network Method for Improving	Efficiency in a Time	Method for Improving	Efficiency in a Time	Sharing Network	Method for Improving	Sharing Network	Method for Improving	Efficiency in a Time	Automotic Cate Costal	Methods and Apparatus	Suitable for Use in OFDM	Receivers	Automatic Gain Control	Methods and Apparatus Sultable for I se in OFDM	Receivers	Automatic Gain Control	Methods and Apparatus	Suitable for Use in OFUM Receivers	Methods and Apparatus for	Use in Reducing Residual	Phase Error in O	Mothed and Account	Memods and Apparatus for Use in Reducing Residual	Phase Error in OFDM		Mothodo and Approximate	Methods and Apparatus for Use in Reducing Residual	Methods and Apparatus for Use in Reducing Residual Phase Error in OFDM Communication Signals
Grant	Date				20 00	na-ner-no	. •	-								26-Mar-02			03-Jun-03			-										
Application	Date			.18-May-00	18-May-00	20 (511)		16-May-00		24-May-00		11-Anr-00				00-Jun-00			17-Jan-02			14-Apr-03			25-Mar-03	20.		24-Aug-04				25-Sep-00
Country	Name			DIAZII	Canada		European Patent	Convention		Mexico		United States	T	· <u> </u>		United States		•	United States		•	United States		Fireboon Dotont			Patent	Cooperation				States
	Owner		ATOT WILLIAM		AT&T Wireless		ATOT Mississis	A I a I WITERESS	-	AT&T Wireless		AT&T Wireless				A I & I Wireless			AT&T Wireless			AT&T Wireless			AT&T Wireless (			AT&T Wireless				AT&T Wireless
Patent	Number				2308963				-				-		6060407	030312/			6574292													
Application	Number		75120		2308963		110197.1			5014		09/546794			-248485	20402			10/051714			10/414576			1964443.4			PCT/US01/26621				09/670286
Docket	Number	-	738.BR		738.CA		738.EPC			/38.MX		738.US			744.US			70 311 772	144.03.01			744.US.C1(1)			745.EPC		•	745.PCT				745.US

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				Country	Application	Grant	();;;
Docket	Application	Patent	Jones	Name	Date	Date	Wilcologe Loop Network
Number	Number	Number					and Another Loop Network
							at a Subscriber's Premises
							Detection of Cross-
							Wireless Loop Network
							and Another Loop Network
					00		at a Subscriber's Premises
-			AT&T Wireless	United States	11-rep-00		Apparatus and Method for
47.US	09/502655						Synchronization in a
							Multiple-Carrier
							Communication System by
							Observing a Plurality of
						•	Synchronization Indicators
			ATOT Mireless	Argentina	21-Jun-00		Apparatus and Method for
748 AR1	103102		AIGH ANIGIGS				Synchronization in a
							Multiple-Carrier
							Communication System by
							Observing Energy Within a
							Guard Band
			AT&T Wireless	Argentina	21-Jun-00		System and Method for
748.AR2	103106		5				Synchronization in a
				-			Multiple Carrier
							Communication System by
							Observing a Phase-
							Frequency Relationship of
				Arrenting	21-Jun-00		a Piurality Oi Filot Cigners
	20000		AT&T Wireless	Argentina			Apparatus and Memod IO
748.AR3	103105					·	Synchronization in a
							Comminication System by
	•						Observing a Plurality of
							Synchronization Indicators
			AT&T Wireless	United States	14-Jun-00		Apparatus and Method for
748.US1	544822		5				Synchronization in a
							Multiple-Carrier
							Communication System by
					•		Observing Energy Willing
							Guard
				Listod Chates	14-Jun-00	14-May-02	Band
748 1192	630289	6389087	AT&T Wireless	OUNIED CIENCE			Apparatus alio merros is:
140.005							Multiple-Carrier
					00 4:1		Communication System by
			AT&T Wireless	United States	14-2011-00		
748.US3	790000						<b>.</b>

Number	Application Number	Patent		Country	Application	Grant	
			Owier	маше	Date	Date	Title
_					,		Observing a Phase-
							requency Relationship of a Plurality of Pilot Signals
		<b>76.5</b>					Methods and Apparatus for
							Use in Obtaining
749.AR	103104		į				Frequency Synchronization
	10000		AT&T Wireless	Argentina	21-Jun-00		In an OFDM
	· ·	· .					Methods and Apparatus for
				Patent			Use in Obtaining
749 PCT			-	Cooperation			Frequency Synchronization
20.64	PCT/US00/40232		AT&T Wireless	Treaty	15. 1.0.00		in an OFDM
					00-100-01		Communication System
							Methods and Apparatus for
			-				Use in Obtaining
749.US	1155110		•				Frequency Synchronization
	7410011	5/68714	AT&T Wireless	United States	14-Jun-00	27- hat 04	in an OFOM
						47-101-04	Communication System
		-					Methods and Apparatus for
	٠						Use in Obtaining
750.US	1156603	000000		-			Frequency Synchronization
	2000	0700866	AT&T Wireless	United States	14-Jun-00	02-Mar 04	in an OFDM
						OF-INIGI -O-	Communication System
		-					Methods and Apparatus for
	•		-	Patent			Use in Obtaining Frame
751.PCT	DOT#1604/46004			Cooperation			Synchronization in an
	1980110801101		AT&T Wireless	Treaty	16-May-01		Or DM Communication
	•			-			Methodo and A
				. •			tise in Obtaining Erams
				•			Synchronization in an
751.US	452050		ATPT Mission	1 - 10			OFDM Communication
			Section Avietos	Onlied States	13-Jun-00		System
	-			•			Method and Apparatus for
•						-	Use in Reducing Traffic
752 AR1	103400				-	:	Over a Communication
	001601		AT&T Wireless	Argentina	21-Jun-00		Link Used by a Computer Network
				Patent			Reverse Turineling
752.PCT2	PCT//ISOO/46422			Cooperation			Methods and Apparatus for
	0110300110432		AT&T Wireless	Treaty	14-Jun-00		Use With Private Computer   Networks
752.US1.D1	10/120710	-	AT&T Wireless	I Inited Ctatas			Methods and Apparatus for
			200001111	Ollica Signes	11-Apr-02		Use in Reducing Traffic

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Docket	Application	Number	Owner	Name	Date	Date	Over a Communication
Number							Link Used by a Computer Network
_							Methods and Apparatus for
							Use in Communicating
							Voice and High Speed
						*	Data in a Wireless
			a TOT Milano	Argentina	21-Jun-00		Communication System
KA AR	103103		Al&I WIREESS				Method and Apparatus for
1							Use in Communicating
				Patent			Voice and riigh speed
	_			Cooperation			Comminication System
			AT&T Wireless	Treaty	15-Jun-00		Methods and Apparatus for
754.PCT	PCT/US00/16700						Use in Communicating
		-					Voice and High Speed
							Data in a Wireless
•				Octob Chatter	14-1110-00		Communication System
31173	1002105		AT&T Wireless	United States	201100-1-1		System and Method for
24.02	200						Data Scrambling to
							Reduce the Crest Factor In
				Arrontina	20-Jun-00		an OFDM Waverorm
755.AR	103064		Al&I Wireless	2000			System and Method IO
		_					Data Scramoling to
				European Patent	-		Reduce ine creat : good
			AT&T Wireless	Convention	09-Jun-00		System and Method for
755.EPC	938236.7		2000111		-		Oata Scrambling to
				Patent		<u>.</u>	Reduce the Crest Factor in
		•		Cooperation	9		an OFDM Waveform
	DCT// ISON/15836		AT&T Wireless	Treaty	On-unr-60		System and Method for
735.PCI	20001000101						Data Scrambling to
						24 0.10 04	Reduce the Cress Factor
	-		AT&T Wireless	United States	08-Jun-00	S-Non-In	System and Method for
755.US	-627971	9676879	5				Data Scrambling to
•							Reduce the Crest Factor in
	*			Chatas Latinia	30.010.04		an OFDM Waveform
766 1104	mailed		AT&T Wireless	United States	to-Roy-oc		Design for Scalable
(33.03)	Daniel III						Network Management
			ATOT Mireless	Argentina	15-Jun-00		Systems Systems
758.AR	102967		Algi Widigs				Checking Service
		163403	AT&T Wireless	Taiwan	22-Jun-00	06-Feb-03	Availability
760.TW	1 89112312	204001					
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Title	System and Method for Checking Service Availability	Intelligent Presentation Network Management Systems	Session Subscription System and Method for Same	Session Subscription System and Method for Same	Session Subscription System and Method for Same	Session Subscription System and Method for Same	Session Subscription System and Method for Same	Subscription-Based Billing Methods and Systems for Shared Network Modern Pools	Subscription Based Billing Methods and Systems for Shared Network Modern Pools	Subscription-Based Billing Methods and Systems for Shared Network Modem Pools	Subscription-Based Billing Methods and Systems for Shared Network Modem Pools	Subscription-based billing Methods and Systems for Shared Network Modern Pools	Synchronization of Encryption in a Wireless Communication System
Grant Date	03-Sep-02			•									
Application Date	17-May-00	24-Feb-00	20-Dec-00	16-Nov-00	20-Dec-00	20-Dec-00	30-Dec-99	22-Dec-00	21-Dec-00	27-Oct-00	20-Dec-00	20-Sep-00	19-Dec-01
Country Name	United States	United States	Brazil	Canada	European Patent Convention	Mexico	United States	Argentina	Brazil	European Patent Convention	Mexico	United States	United States
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	6445912												
Application Number	09/572144	09/511168	0005942-0	2326572	311492.3	12896	09/474839	106901	0.00230.0	309465.3	12898	09/665780	10/028573
Docket Number	<del>                                     </del>		765.BR	765.CA	765.EPC			768 AR	768 PD	768 EPC	768 MX	768.US	769.US

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Naille			Data Link Layer Tunneling
				·			Technique for High Speed
						24 Eob.04	Data in a Noisy Wireless
211022	09/694943	6697983	AT&T Wireless	United States	24-Oct-00	10-00 1-17	Data Link Layer Tunneling
2000							Technique for High Speed
							Data in a Noisy Wireless
				1 Inited States	28-Jan-04		Environment Environment
770.US.C1	10/767246		AT&I WIREIESS	חווופת סומופא			Medium Access Dynamic
						_	Congestion Control
							Mechanism for Wireless
		0001010	ATRT Wireless	United States	21-Dec-00	20-Jul-04	Data
772.US1	09/745216	6/62869	2000				Medium Access Dynamic
							Congestion Control Machanism for Wireless
		÷		Listed Chatos	21-0-00	20-Jul-04	Data
772.US2	09/745219	6765870	AT&T Wireless	Oulted States	20.000.12		Collision-Free Multiple
							Access Reservation
				Furnean Patent			Scheme for Multi-Tone
				Convention	11-Dec-00		Modulation Links
775.EPC	311028.5		Al&i Wireless	COLLAGORICA			Collision-Free Multiple
							Access Reservation
							Scheme for Multi-Tone
			AT&T Wireless	United States	18-Jul-00		Modulation Links
775.US	09/618653		2000				Method and Apparatus for
							Efficient Snaring of
							Communication system
		•	AT&T Wireless	United States	28-Nov-00		Resources
778.US	228522		5				Method and Apparatus to
							Comminication System
		-			10 Airs 04		Resources
778 US C1	mailed		AT&T Wireless	United States	-Anna-ei		A Real-Time System for
					-		Measuring the Ricean K-
		-		Argentina	08-Feb-01		Factor
779.AR	10100580		AIG! Wileless	Patent		-	A Real-Time System for
				Cooperation			Measuring the Ricean K-
			ATDT Missione	Treaty	07-Feb-01		Factor
779.PCT	PCT/US01/03854	.	AIGI WIEBESS	Constitution			System and Method for
		٠.	•	:			Providing Service Provider
				I Inited States	26-Dec-01	,	Data Connection
781.US	10/036315		Aldri Wireless	Ollico Compo	42 hd 04		Adaptive Dual-Polarization
782.AR	10103358		AT&T Wireless	Argentina	13-701-01		

· .					•									· · ·
Title	Communication of Orthogonal Frequency Division Multiplexed Signal	Multicarrier Transmission Using Polarized Antennae	Adaptive Dual-Polarization Communication of Orthogonal Frequency Division Multiplexed	Signals Transmit Power Control for an OFDM-Based Wireless	Communication System	Method for Shared Network Modem Dialup Intranet Access Over a	Wireless Network Using PPPoE	Method of Determining RF Coverage Area in a Point-	System	Method for Providing Transparent Public Addressed Networks	Method for Providing Transparent Public Addressed Networks Within Private Networks	Method for Providing Transparent Public Addressed Networks Within Private Networks	Method for Providing Transparent Public Addressed Networks Within Private Networks	Method for Estimating Changes in Product Life Resulting From HALT Using Exponential
	S S S	Mult	A C O O	Trar	ပ်	Net I	Wireless PPPoE	Net Co	Sys	Meti Trar Add	Met Trar Add	Met Trar Add With	Add Vith	Meth Cha Resi Usin
Grant Date														
Application Date		13-Jun-01		14-Jul-00	28-Feb-01		12-Jun-01		05-Jun-01	13. lin.01	13-Jun-01	18-Oct-01	28-Nov-00	06-Jul-01
Country		Patent Cooperation Treaty		United States 1	United States 2		United States		United States (	Aroentina			States	
Owner		AT&T Wireless	·	AT&T Wireless	AT&T Wireless	·	AT&T Wireless		AT&T Wireless	ATRT Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	
Patent Number													• .	
Application Number		PCT/US01/18993		09/616128	2665785		09/879350		09/874570	10102824	P120012764	90113964	722695	62/006/60
Docket Number		782.PCT		782.US1	784.US		786.US		787.US	789.AR	789.MY	789.TW	789.US	792.US

ket         Application         Patent         Country         Application         Grant         Arginit           ber         Number         Number         Number         Argin							. 41.00	
Number   N	Docket	Application	Patent		Country	Application Date	Grant	Title
AT&T Wireless   United States   11-Jun-01   Free	Number	Number	Number	Owner	Name			Acceleration Model
Ogjeg0777   AT&T Wireless   United States   O6-Jul-01   Tu								Method for Estimating
108/0777						-		Resulting From HALT
Object   O					-			Using Quadratic
10/627192   AT&T Wireless   United States   11-Jun-01   5/15					I Inited States	06-Jul-01		Acceleration Model
100627192	93.US	777006/60		AT&T Wireless	2000			Turbo Channel Estimation
10/627192					Linited States	11-Jun-01		for OFDM Systems
10/627192	94.US	09/878555		AT&T Wireless	Olineu States			System and Method of
10/627192   AT&T Wireless   United States   24-Jul-03   Shake   Shakes						-		Assigning Filotity to Remote Units in a Collision
10/627192   AT&T Wireless   United States   24-Jul-03   Signature								Free Multiple Access
10/627192   AT&T Wireless   United States   25-Jul-02   Phases   Convention   19-May-04   Detection   AT&T Wireless   Convention   19-May-04   Detection   AT&T Wireless   Convention   Convention   Convention   AT&T Wireless   United States   Detection   AT&T Wireless   United States   Detection   Detection   AT&T Wireless   United States   Detection   AT&T Wireless   United States   Detection   AT&T Wireless   Detection   AT&T Wireless   Treaty   Cooperation   AT&T Wireless   Treaty   Cooperation   AT&T Wireless   Treaty   AT&T Wireless					004040	24. htt.03		Protocol
60/399042	21.007	10/627192		AT&T Wireless	United States	24-20I-02		System and Method of
Mailed   AT&T Wireless   United States   25-Jul-02   Propertion   19-May-04   Mailed	130.03			· 				Assigning Priority to
Mailed   AT&T Wireless   United States   25-Jul-02   Proper								Free Multiple Access
Mailed   AT&T Wireless   United States   23-JUI-VZ   Mailed   AT&T Wireless   Convention   19-May-04   Or						3		Protocol
European Patent   19-May-04   17   17   17   17   17   17   17   1				AT&T Wireless	United States	25-JUI-02		
mailed	798P.US	60/399042			European Patent			Method for synchronization
## AT&T Wireless   United States   22-Oct-01   S				ATRITIVIpose	Convention	19-May-04		or Received Signals
4628  AT&T Wireless United States  22-Oct-01  Patent Cooperation 10/116160  AT&T Wireless United States 05-Apr-02  AT&T Wireless United States 24-Apr-02  AT&T Wireless Treaty AT&T Wireless Treaty AT&T Wireless Treaty Treaty Treaty Treaty	802.EPC	mailed		200				Mothod for Method OFDM
4628   AT&T Wireless   United States   22-Uct-U1   AT&T Wireless   Treaty					,	70 00		Signal
4628			ii.	AT&T Wireless	United States	ZZ-Oct-01		A Peal-Time Rate Control
PCT/US03/08721	802.US	4628						Mechanism for Multi-Rate
PCT/US03/08721 AT&T Wireless Treaty 21-Mar-03 V  10/116160 AT&T Wireless United States 05-Apr-02  -374098 AT&T Wireless United States 24-Apr-02  AT&T Wireless Treaty 21-Mar-03 V  AT&T Wireless Treaty 30-Apr-02			<del></del>		Patent		اسيب	Data Transmissions in
PCT/US03/08721  AT&T Wireless I ready 21-war 30-Apr-02  AT&T Wireless United States 24-Apr-02  AT&T Wireless Treaty 30-Apr-02  AT&T Wireless Treaty Treaty					Cooperation	24 Mar-03		Wireless Networks
10/116160  AT&T Wireless United States  24-Apr-02  AT&T Wireless Treaty  AT&T Wireless Treaty  Observation  AT&T Wireless Treaty  Observation  AT&T Wireless Treaty	100	DCT//1503/08721		AT&T Wireless	lreary	20-18161-7		A Real-Time Rate Control
10/116160  AT&T Wireless United States 05-Apr-02  AT&T Wireless United States 24-Apr-02  Cooperation Cooperation 30-Apr-02  AT&T Wireless Treaty 30-Apr-02	816.PCI							Mechanism for Multi-Kate
10/116160         AT&T Wireless         United States         05-Apr-02           -374098         AT&T Wireless         United States         24-Apr-02           AT&T Wireless         Cooperation         30-Apr-02           AT&T Wireless         Treaty         30-Apr-02								Data Transmissions in
10/116160  AT&T Wireless Onited States 24-Apr-02  AT&T Wireless United States 24-Apr-02  Cooperation 30-Apr-02  AT&T Wireless Treaty 30-Apr-02					1 Inited Chates	05-Apr-02		Wireless Networks
-374098 AT&T Wireless United States 24-Apr-02 Patent Cooperation 30-Apr-02	916115	10/116160		AT&T Wireless	חווופח סיפופס			System and Method for
-374098 AT&T Wireless United States 24-Apr-02 Patent Cooperation 30-Apr-02 AT&T Wireless Treaty	010:00							Channel Assignment view
-374098 -37409								Adaptive Modulation in
-374098 -374098 Patent Cooperation AT&T Wireless Treaty 30-Apr-02				. and with the same	United States	24-Apr-02		Wireless Confinionical
Patent Cooperation AT&T Wireless Treaty	817.US	-374098		AIGI WIIGIGSS			·	Mulu-Selvice Incress
Cooperation 30-Apr-02								Eroniona-Division
Cooperation 30-Apr-02 Treaty	_			•	Patent			Multiplexed
AT&T Wireless Treaty Jo-Apr-02		-			Cooperation	20 4-2		Communications Systems
	1	037.0.1.0.0.1.1.0.0		AT&T Wireless	Treaty	30-Apr-02		

Number Number	Application Number	Patent Number	Owner	Country	Application	Grant	
				Direct	Date	Date	litle
							Multi-Service Network
	•			•			Fremare Apparatus for
819.US.D1	09/879358	7.0000					Multiplexed
	0000	000/3/4	A I & I Wireless	United States	12-Jun-01	03-Feb-04	Communications Systems
			· ·				Prepaid Calling Time
							Processing: A Method and
		_					Apparatus for Processing
							Pre-Paid Calling Time in a
852.US	09/578031	6707894	AT&T Wireless	United States	24-Mav-00	16 May 04	Telephone Communication
	٠				200	10-Ivial-04	System Propold Colline Time
							Processing: A Method and
							Apparatus for Processing
	•						Pre-Paid Calling Time in a
852.US.C1	10/751672		AT&T Wireless	United States	05-Jan-04		Telephone Communication
853115	40/64 5000						Notwork Designal
20:000	788010/01		AT&T Wireless	United States	07-Jul-03		Converter
					•		Integration of Wireless and
854.US	1964915		AT&T Wireless	1 Inited Chates	46 000		External Computing
			2000	Olinco Olaiga	13-380-03		Devices
956 110							HITP-Based Application
020.02	10///3555		AT&T Wireless	United States	05-Feb-04		Proxv
857.115	1071175						Terminal Device ID
	13/11/23		AT&T Wireless	United States	15-Sep-03		Address Authentication
862.US	10/685616		AT&T Wireless	United States	14.004.03		Location Announcement
				2000	20-1-20-1-1		for Mobile Devices
	-						Method, System and Apparatus for Providing
863P.US	60/520073	•	ATPT Mississ	I Inited Obeside	;		Wireless Identification to
			Alat Wireless	Ornied States	15-Nov-03		Standard Telephone
٠.							Providing Location
		-					Designation for Wireless
874.05	10/685614		AT&T Wireless	United States	14-Oct-03		Services Using Name Service
			•				Distributed Handling of
879P.US	60/543952		AT&T Wireless	United States	11-Feb-04	<del> ,</del>	Information Directed to a
				*			Method and Apparatus for
880.US	10/776507		ATRT Mireles	I foliood Choton			Providing Quality of
			A Late Wildings	Ollifer States	12-rep-04		Service Through Multiple

Docket         Application Number Number         Patent Number           Number         Number         Number           883P.US         60/557153         Mumber           886.US         mailed         mailed           888.US         mailed         mailed           889.US         10/821608         mailed           899.US         10/763862         mailed           899.US         10/763862         mailed           895P.US         60/519947         mailed           897.US         10/821325         mailed           897.US         10/867957         mailed           906.US         10/867957         mailed	Owner	Country	Application	Grant	Tiệc
Mumber  Number  Number  60/557153  mailed  10/822187  10/822187  10/622187  10/621325  10/821325  10/821325  8 60/539780	Owner			Date	11110
		Мате	280		Carrier IP Networks
					System and Method for
S S S S S S S S S S S S S S S S S S S					Telecommunications
S S S S	AT&T Wireless	United States	25-Mar-04		Terminal-Based Server for
S S S S			70 00		Location Tracking
SI S	AT&T Wireless	United States	74-0ab-04		Sharing Content on Mobile
S S S S S S S S S S S S S S S S S S S	ATPT Mireless	United States	09-Apr-04		Devices Serving for
S S S S	AIG! Wildias				System and Method for
8 8 9 8	STOT WINDS	United States	20-May-04		User Location Information
ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν	AIGI WIIEIGSS				Spam Control tot Strate
8 8 8	AT&T Wireless	United States	09-Apr-04		Identifying A Device to a
S S S	Feb	United States	22-Jan-04		Network
8 8 8	Alai Wileiess				System for Providing
					Location-based Services in a Wireless Network, Such
					as Locating Sets of
	and Aliceles	United States	15-Apr-04		Desired Locations
	AIGI Wileigas				Personal Base Station with
	AT&T Wireless	United States	14-Nov-03		Wireless Video Capability
	2000		-		User Devices When
					Sharing Content on Mobile
		Hoited States	09-Apr-04		Devices
	AT&I Wireless	DIMICO DOMINO			Call Handling Scheme to
	AT&T Wireless	United States	14-Jun-04		Call Handling Scheme to
		Cotobo	27. lan-04		Reduce Roaming Charges
	AT&T Wireless	United States	2 100-17		Method and System for
					of Movable Wireless
		actata Letter	12.Son.04		Networks
908.US mailed	AT&T Wireless	United States		  -  -	Method and System for
				-	of Movable Wireless
· ·		1 Inited States	05-Mar-04		Networks
908P.US 60/549920	AI&I WIRERSS	DON'T			Customized Signature Message Service
915115	AT&T Wireless	United States	30-Jun-04		

								Γ
	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	
	malled		AT&T Wireless	United States	19-Aug-04		Testing for Mobile Device Locator Systems, Such as for E911 Phase II	e se
	malled		AT&T Wireless	United States	13-Aug-04		Wireless Device Service Activation from a Wireless Device	ss s
	mailed		AT&T Wireless	United States	14-Sep-04		Selection of Bearer Mode According to Message Characteristics	ø
	mailed		AT&T Wireless	United States	14-Sep-04		Maintaining Instant Message Session Status in Dynamic Operating Environments	ri
	60/588307		AT&T Wireless	United States	15-Jul-04		Using Emoticons, Such as for Wireless Devices	as
	60/588110	-	AT&T Wireless	United States	15-Jul-04		Help Buddy for Instant Messaging on a Wireless Device	တ္
<del></del>	mailed		AT&T Wireless	. United States	03-Sep-04		System and Method for Data Organization and Olsplay in an Instant- Messaging Interface	
	mailed		AT&T Wireless	United States	14-Sep-04		Dedicated Wireless Device Business Method	8
	60/590185		AT&T Wireless	United States	21-Jul-04		Dedicated Wireless Device Business Model	8
	mailed		AT&T Wireless	United States	10-Sep-04		Always On Mobile IM / Messaging Centric Wireless Device	
	60/590229		AT&T Wireless	United States	21-Jul-04		Always On Mobile IM / Messaging Centric Wireless Device	
	mailed		AT&T Wireless/IXI Mobile	United States	20-Sep-04		Mobile Communications Device	
	2231255	,	AT&T Wireless/Atmel Corp.	Canada	30-Aug-96		Wireless Corhmunication System Having Mobile Stations Establish a Communication Link Through the Base Station	- F

						Grant	
Docket	Application	Patent	Owner	Country Name	Application Date	Date	Title
Number	Number	i de la companya de l	AT&T Wireless/Atmel		20. A.ro. 95	т.	Wireless Communication System
237.CA.D1	2321957		Corp.	Canada	20 820	,	noise in including
	06046386.8		AT&T Wireless/Atmel Corp.	European Patent Convention	30-Aug-96		Wireless Collinging
237.55			AT&T Wireless/Atmel		30-Aug-96		Wireless Communication System
237.JP	354166		AT&T Wireless/Atmel	A Solid	30-Aug-96	15-Jun-01	Wireless Communication System
237.MX	981827	202428	Corp.	MEXICO	8		
			AT&T Wireless/Atmel	United States	. 98-Sep-95	66-Jun-90	Wireless Communication System
237.US	-44345	0211183	AT&T Wireless/Atmel	Inited States	04-Nov-98	11-May-04	Cordless Cellular System
237.US.D1	09/185859	6735432	Corp.				Device and Method Used
			AT&T Wireless/Atmel	5	30-Aug-96	30-Jul-02	for Changing Wireless Communication Between Base Stations of Different Kinds
238.CA	2231370	2231370	Corp.	Canada	00 800.00		Mobile Telecommunication
			AT&T Wireless/Atmel	,	90	18-Jan-02	for Changing Wireless Communication Between Base Stations of Different Kinds (PBS #3)
238.DE	96940621.4	69618604.7	Corp.	Germany	DG-ROUNG		Mobile Telecommunication Device and Method Used
			AT&T	-			for Changing Wireless Communication Between Base Stations of Different
			Wireless/Atmel	European Patent Convention	30-Aug-96	16-Jan-02	Kinds Kinds Mobile Telecommunication
238.EPC	96940621.4	848888					Device and Method Used for Changing Wireless
			AT&T Wireless/Atmel		30-Aug-96	16-Jan-02	Communication between Base Stations of Different Kinds (PBS #3)
238.FR	96940621.4	848888	Com.	Salis			

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant	9
27.8 20.8 20.8			AT&T Wireless/Atmel	·			Mobile Telecommunication Device and Method Used for Changing Wireless Communication Between Base Stations of Different
	90340021.4	848888	Corp.	Great Britain	30-Aug-96	16-Jan-02	Kinds (PBS #3)
238.JP	9-511293		Wireless/Atmel	Japan	30-Aug-96		A Mobile Telecommunicating Device
238,MX	981819	202427	AT&T Wireless/Atmel Com	Movico	00		Mobile Telecommunication Device and Method Used for Changing Wireless Communication Between Base Stations of Different
			AT&T		os for on	10-400-61	Kinds Mobile Telecommunication Device and Method Used for Changing Wireless
238.US	-58590	5732360	Wireless/Atmel Corp.	United States	08-Sep-95	24-Mar-98	Communication Between Base Stations of Different Kinds (PBS #3)
546.EPC	3739732		AT&T Wireless/Nortel	European Patent Convention	11-Feb-03		Centralized Communications Network Charging Methods and Apparatus
546.PCT	PCT/US03/04036		AT&T Wireless/Nortel	Patent Cooperation Treaty	11-Feb-03		Centralized Communications Network Charging Methods and Apparatus
546.US	10/365116		AT&T Wireless/Nortel	United States	11-Feb-03		Centralized Communications Network Charging Method and Apparatus
546P1.US	60/356579		AT&T Wireless/Nortel	United States	11-Feb-02		Telecommunications Network Centralized Charging System Topology
546P2.US	60/356578		AT&T Wireless/Nortel	United States	11-Feb-02	·	Payment Methods and Apparatus
456.US	09/406278		AT&T/AT&T Wireless	United States	24-Sep-99		Method for Implementing Service Logic Via Database Table Transversals

Application						2019001	Grant	
Number	***************************************	Application	Patent		Country	Application	Date	Title
1818413.8   AT\$TAT\$T\$T   United States   12.Jan-696   30-Oct-01   Sign Nations	Docker	Number	Number	Owner	Маше	253		Calling Party Paid Wireless
1818413.6   191053   Wireless   United States   19-0-0-0-1	Mulipa			AT&T/AT&T		12. lan-99	30-Oct-01	System
1818413.6		87300000	6311053	Wireless	+			Method and Apparatus to
1818413.8	.68.US	037760						Automatic Confirmation of
1818413.6   Wireless								Short Message Service
1818413.8   Wireless   China P.K.   United States   11-Dec-00   Niveless   Convention   Os-Nov-01   Niveless   Convention   Os-Nov-01   Niveless   Convention   Os-Nov-01   Niveless   Os-Nov-01   O				AT&T/AT&T	(	Po More Of		Delivery
1990011.7   1910413.0		0 (770707		Wireless	China P.K.	0-404-00		Method and Apparatus for
1990011.7   AT\$TIAT&T   European Patent   O6-Nov-O1   D6 Nov-O1   D7 Nov-O1	509.CN	1818413.0					·	Network-Assisted
1990011.7   AT\$TIAT\$T   European Patent   O6-Nov-01   NM								Chort Messare Service
1990011.7   Wireless   Patent   De Nov-01   Nov				ATRT/ATRT	European Patent			Delivery
Patent   P	1			Wireless	Convention	10-AON-90		Method and Apparatus for
Potent	509.EPC	199001./						Network-Assisted
PCT/US0147231   AT&T/AT&T   Cooperation   De-Nov-01   M   Mineless   AT&T/AT&T   United States   De-Nov-01   De-					Patent			Short Message Service
PCT/US01/47231   Wireless   Treaty   United States   United				AT&T/AT&T	Cooperation	00 May 04		Delivery
PCT/US01/47231				Wireless	Treaty	In-AON-ON		Method and Apparatus for
10/011554   AT&T/AT&T   United States   06-Nov-01   D   D	509.PCT	PCT/US01/47231						Network-Assisted
10011554   AT&T/AT&T   United States   06-Nov-01   Discrimination   12-Jan-01   Discrimination   12-Jan-01   Discrimination								Automatic Confirmation of
100011554   AT&T/AT&T   United States   06-Nov-01   Wireless   AT&T/AT&T   Convention   12-Jan-01   Wireless   AT&T/AT&T   United States   11-Dec-00   AT&T/AT&T   United States   11-Dec-00   AT&T/AT&T   United States   16-Feb-01   22-Jun-04   AT&T/AT&T   United States   16-Feb-01   AT&T/AT&T   United States   16-Feb-01   AT&T/AT&T   United States   16-Feb-01   AT&T/AT&T   United States   16-Feb-01   AT&T/AT&T   European Patent   AT&T/AT&T   European Patent   06-Jun-01   AT&T/AT&T   Convention   06-Jun-01   06-Jun-01   AT&T/AT&T   COnvention   06-Jun-01				HO H	5			Short Message Service
10/01554   Wileless				Al&I/Al&I	United States	06-Nov-01	-	
1100127.8   AT&TIAT&T   Convention   12-Jan-01   Wireless   Convention   12-Jan-01   Wireless   Wireless   Wireless   Wireless   AT&TIAT&T   United States   O7-Jun-01   Convention   O5-Jun-04   Wireless   AT&TIAT&T   United States   O7-May-01   Convention   O6-Jun-01	509.US2	10/011554		Wildiass	C. rongan Patent			Wireless Internet Call
1100127.8				AT&T/AT&T	Convention	12-Jan-01		Waiting Service
1112965.6   AT&T/AT&T   United States   11-Dec-00   Nireless   Nireless   Nireless   Nireless   Nireless   Nireless   AT&T/AT&T   United States   04-Sep-01   O7-Jun-01   O7-Jun-01   O7-Jun-01   O7-Jun-04   O7	000	1100127.8	-	Wireless	COLLAGINION			Methods and Appelence 15:
O9/734157	324.EF.C			AT07/AT87		•		Conferencing
O9/734157   AT&T/AT&T   United States   O4-Sep-01	-			Wireless	United States	11-Dec-00		Methods and Apparatus for
C1         09/945868         AT&T/AT&T         United States         04-Sep-01           C         1112965.7         AT&T/AT&T         European Patent Convention         07-Jun-01           C         4112965.7         AT&T/AT&T         United States         16-Feb-01         22-Jun-04           S         -522416         6754506         Wireless         AT&T/AT&T         United States         07-May-01           B         -615919         AT&T/AT&T         European Patent Convention         06-Jun-01	547.US	09/734157						Wireless Auto-
09/945868   Wireless				AT&T/AT&T	1 Inited States	04-Sep-01		Conferencing
1112965.7   AT&T/AT&T   European Patent   O7-Jun-01	E47 119 C1	09/945868		Wireless	20110	╀		System Having Enhanced
1112965.7   Wireless   Convention   O'-Sur.O.	14.00.01			AT&T/AT&T	European Patent			Power Control
-522416 6754506 Wireless United States 16-Feb-01 22-Jun-04 -522416 6754506 Wireless O7-May-01 -615919 AT&T/AT&T United States 07-May-01 Wireless AT&T/AT&T Convention 06-Jun-01 Wireless Convention 06-Jun-01	,	1112065 7		Wireless	Convention			TDMA Communication
-522416 6754506 Wireless United States 10-reu-vi AT&T/AT&T United States 07-May-01 Wireless AT&T/AT&T European Patent Onvention 06-Jun-01	558.EPC			AT&T/AT&T		10 10	22-Jun-04	Power Control
-615919 AT&T/AT&T United States 07-May-01 Wireless European Patent O6-Jun-01 Wireless Convention 06-Jun-01	558.US	-522416	6754506	Wireless	United States	10-080-01		Method and System for Signaling Presence of
-615919 Wireless United States				AT&T/AT&T				Users in a Multi-Networked Environment
AT&T/AT&T European Patent O6-Jun-01 Wireless Convention O6-Jun-01	311.633	615919		Wireless	United States	+-		Method and Apparatus for
1112956.6	307.00			AT&T/AT&T	Convention			Sharing Wireless Content
	572.EPC	1112956.6		Wireless				

11111							
Number	Application	Patent Number	Owner	Country	Application Date	Grant Date	<u>4</u>
572.US	09/801635		AT&T/AT&T Wireless	United States	09-Mar-01		Method and Apparatus for Sharing Wireless Content
629.CA	2411899		AT&T/AT&T Wireless	Canada	15-Nov-02		Progressive Reuse Partitioning for improved Interference Rejection in
629.US	1035707		AT&T/AT&T Wireless	United States	15-Nov-01		Progressive Reuse Partitioning for improved Interference Rejection in Wireless Parket Networks
727.US	09/148316	6404753	AT&T/AT&T Wireless	United States	04-Sep-98	11-Jun-02	Method and Apparatus for Controlling Access to a Communication Channel
741.PCT	PCT/US01/28658		AT&T/AT&T Wireless	Patent Cooperation Treaty	14-Sep-01		Apparatus, System and Method for Validating Integrity of Transmitted Data
741.US	2670533		AT&T/AT&T Wireless	United States	18-Sep-00	-	Apparatus, System and Method for Validating Integrity of Transmitted Data
742.US	09/783843		AT&T/AT&T Wireless	United States	15-Feb-01		Apparatus, System and Method for Detecting a Loss of Key Stream Synchronization in a Communication System
743.EPC	2731814.6	·	AT&T/AT&T Wireless	European Patent Convention	15-May-02		Apparatus, System and Method for Validating Integrity of Transmitted Data
743.PCT	PCT/US02/15451		AT&T/AT&T Wireless	Patent Cooperation Treaty	15-May-02		Apparatus, System and Method for Validating Integrity of Transmitted Data
743.US	09/879575		AT&T/AT&T Wireless	United States	12-Jun-01		Apparatus, System and Method for Validating Integrity of Transmitted Data
186.US	29/021670	D363068	Claircom Communications	United States	21-Apr-94	10-Oct-95	Airline Telephone Handset With Digital Passenger Control Functions and Video Game Controls

Dockett         Application         Fatent Number         Owner         Number         Country         Application Date         Title Admire Tribles           188.AT         1926-16-36         Title Admire Tribles         Title Admire Tribles         Title Admire Tribles         Title Admire Tribles         Title Admire Tribles         Title Admire		,							
r         Number         Owner         Name         Number         Owner           r         Number         Owner         Caliform         United States         25-Apr-94         23-Jan-96         Vol. Cont.           290021800         Communications         United States         19-Jun-95         19-Jun-96         Vol. Cont.           280040119         D370910         Communications         United States         19-Jun-95         19-Jun-96         Vol. Cont.           280040119         D370910         Communications         United States         07-Jun-95         19-Jun-96         Vol. Cont.           325-6/95         18022         Communications         United States         07-Sep-95         29-Jul-97         Col. Cont.           1995-1986         777925         Communications         Communications         Germany         07-Sep-95         21-Feb-96         Tr           2000278         200278         Communications         Germanications         Germanications         Germanications         Germanications         Germanications         Germanications         South Konea         07-Sep-95         25-Jun-96         Tr               200278              2050278              Communications              Singapore              08-Sep-95               09-Jun-99	ket	Application	Patent		Country	Application Date	Grant Date	Title	
Caircom         Caircom         United States         25-Apr-84         23-Jan-96         Vinited States           290421800         Communications         United States         19-Jun-95         18-Jun-96         Vinited States           290440119         D370910         Cammunications         United States         19-Jun-95         18-Jun-96         Vinited States           290440119         D370910         Caintrom         United States         07-Jun-65         29-Jul-97         Total Communications           1995-1988         177925         Communications         Caintrom         Caintrom         Caintrom         Caintrom         Caintrom         Caintrom         17-Sep-95         29-Jul-97         Total Communications         Caintrom         17-Sep-95         29-Jul-96         Total Communications         17-Sep-95         29-Jul-96         Total Communications         17-Sep-95         29-Jul-96         Total Communications         17-Sep-95         29-Jul-96         Total Communications         19-Sep-95         29-Jul-96         Total Communications         10-Mar-95         25-Jul-96         Total Communications         10-Mar-95         25-Jul-96         Total Communications         10-Mar-95         25-Jul-96         Total Communications           2050278         Communications         Communications         C	ber	Number	Number	Owner	Na la			Airline Telephone Handset	
29/021800         D366482         Communications         United States         18-Jun-95         18-Jun-96         VM           229/021800         Claircom         Communications         United States         18-Jun-95         18-Jun-96         VM           229/040119         D370910         Communications         United States         07-Jun-95         29-Jun-97         To-Communications           3256/95         18022         Communications         Austria         07-Sep-95         25-Jan-96         To-Communications           MSS07231.4         MSS07231.4         Claircom         Claircom         Germany         07-Sep-95         25-Jan-96         To-Communications           2050278         Z050279         Communications         France         11-Sep-95         25-Jan-96         To-Communications           2050278         Z050279         Communications         Great Britain         08-Sep-95         25-Jan-96         To-Communications           1662771995         182764         Communications         South Korea         07-Sep-95         05-Jun-96         To-Communications           2050278         2050278         Communications         Singapore         08-Sep-95         05-Jun-96         To-Communications           2050278         2050278         Comm				Claircom		25-Apr-94	23-Jan-96	Control Functions and Video Game Controls	
D1         280/40119         D370910         Communications Communications         United States         18-Jun-95         18-Jun-96         16-Jun-96         16-Jun-96         16-Jun-96         16-Jun-96         16-Jun-96         16-Jun-96         17-Jun-96         16-Jun-96         17-Jun-96         17-Jun	CP1	29/021800	D366482	Communications				Airline Telephone Handser With Digital Passenger	
Dot         290/40119         Usarios valuations         Claircom         United States         07-Jun-95         29-Jul-97         To-04-95         To-04-96				Claircom	United States	19-Jun-95	18-Jun-96	Control Functions and Video Game Controls	
09482288         5652792         Communications         United States         20-Cot-85         Teb.           1995-1998         17925         Claircom         Communications         Canada         07-Sep-95         25-Jan-96         Tr           1995-1998         17925         Claircom         Communications         Canada         07-Sep-95         21-Feb-96         Tr           1995-1998         17925         Claircom         Communications         Cermany         07-Sep-95         21-Feb-96         Tr           1995-1998         17925         Claircom         Communications         France         11-Sep-95         21-Feb-96         Tr           10 2050278         2050278         Communications         Great Britain         08-Sep-95         25-Jan-96         Tr           10 2050278         2050278         Communications         South Korea         07-Sep-95         05-Jul-99         Tr          10 2050278         192764         Communications         Singapore         08-Sep-95         05-Jul-96         Tr          10 2050278         2050278         Communications         Singapore         08-Sep-95         05-Jul-96         Tr          10 2050278         2050278         Communications         Communications         Communications </td <td>٥</td> <td>29/040119</td> <td>Usingin</td> <td>Claircom</td> <td>solciS Poli-ir</td> <td>07hin-95</td> <td>29-Jul-97</td> <td>Telephone Handset and Cradte</td> <td></td>	٥	29/040119	Usingin	Claircom	solciS Poli-ir	07hin-95	29-Jul-97	Telephone Handset and Cradte	
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951701         59555         Communications         Sweden         08-Sep-95         05-Jun-96         1           2050278         2050278         Claircom         Singapore         08-Sep-95         25-Jan-96         1           29/035969         D371553         Communications         United States         10-Mar-95         09-Jul-96           C         96907201.6         Communications         Convention         Convention         26-Jun-98           C         098106849.3         Communications         Hong Kong         26-Jun-96           C         Communications         United States         10-Mar-95         06-May-97		16827/1995	192764	Claircom	South Korea	07-Sep-95	03-Feb-97	Telephone Handset	$\top$
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29/035969         D371553         Communications Communications         United States         10-Mar-95         09-Jul-96           96907201.6         Claircom Communications         European Patent Convention         Resolution Communications         Convention Convention         28-Jun-98           98106849.3         Claircom Communications         Hong Kong Cathes         26-Jun-98         06-May-97           2548877         5627891         Communications         United States         10-Mar-95         06-May-97	ا ر	2050278	2050278	Claircom Communications	Singapore	08-Sep-95	25-Jan-96	Telephone Handset	T
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98106849.3 Claircom Communications Hong Kong 26-Jun-98 Claircom Claircom Communications United States 10-Mar-95 06-May-97	2	96907201.6		Claircom Communications	European Patent Convention	08-Mar-96		Handset in ah Armrest Tribe Mounted Telephone	
Claircom Claircom Communications United States 10-Mar-95 06-May-97 06-May-97	¥	98106849.3		Claircom Communications	Hong Kong	26-Jun-98		Handset in an Armrest	
	<u> </u>	2548877	5627891	Claircom	United States	10-Mar-95	06-May-97	Handset in an Armrest	7

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	9
191.DE	29580194.8	29580194.8	Claircom Communications	Germany	25-Apr-95	20-Feb-97	Airplane Telephone	hone
191.JP	527740/95		Claircom Communications	Japan	25-Apr-95		Airplane Telephone	hone
191.KR	10-1996-705967	10-348946	Claircom Communications	South Korea	25-Apr-95	02-Aug-02	Airplane Telephone	hone
191.MX	965011		Claircom Communications	Mexico	25-Apr-95		Airplane Telephone	hone
191.PCT	PCT/US95/04821	95/04821	Claircom Communications	Patent Cooperation Treaty	25-Apr-95	02-Nov-95	Airplane Telephone	hone
193.US	08/040180	5463678	Claircom Communications	United States	26-Mar-93	31-Oct-95	Credit Card Reader	ader
195.US	08/040179	5410597	Claircom Communications	United States	26-Mar-93	25-Apr-95	Wired Seat Back Aircraft Telephone Set	ck Aircraft
196.US	08/040178	5394467	Claircom Communications	United States	26-Mar-93	28-Feb-95	Multi-Purpose Telephone Strain Relief	Telephone
198.US	08/042426	5455964	Claircom Communications	United States	26-Mar-93	03-Oct-95	Stabilization of Frequency and Power in an Airborne Communication System	f Frequency an Airborne n System
199.US	29/007592	D361568	Claircom Communications	United States	26-Mar-93	22-Aug-95	Airplane Telephone Set	hone Set
251.US.C1	08/451719	6393281	Claircom Communications	United States	26-May-95	21-May-02	Seamless Hand-Off for Air- To-Ground Systems	id-Off for Air- stems
259.US.C6C2C2	09/451579		Claircom Communications	United States	30-Nov-99		Multi-Nodal Digital Telephone Distribution System	gital
259.US.C6C4C1	Mailed		Claircom Communications	United States	14-Mar-01		Multi-Nodal Digital Telephone Distribution System	gital tribution
375.US.C1	09/520806	6449287	Claircom Communications	United States	08-Mar-00	10-Sep-02	Short Messaging Method and System for Airborne Passengers	ng Method r Airborne
375.US.C1(1)	10/211929		Claircom Communications	United States	02-Aug-02		Short Messaging Method and System for Airborne Passengers	ing Method r Airborne
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Docket	Application	Patent		Country	Application	Grant	Tite	
Number	Number	Number	Owner	Name	Date	Care	Wireless Communications	
			McCaw Cellular	Germany	14-Dec-94	10-Apr-95	Terminal	
153.DE	M9409857.3	M9409857.3	McCaw Cellular			20.Sep.05	Wireless Communications Terminal	
153 FL 1	861/94	17729	Communications	Finland	21-Dec-94	23-0eb-02		
453 El 2	R62/94	17730	McCaw Cellular Communications	Finland	21-Dec-94	29-Sep-95	Wireless Communications Terminal	<del></del>
		700970	McCaw Cellular Communications	France	22-Dec-94	31-Mar-95	Wireless Communications Terminal	
153.FR	946994	† 000 † 00 † 00 † 00 † 00 † 00 † 00 †	McCaw Cellular		22 Dec. 04	20-Apr-00	Wireless Communications Terminal	
153.IT	TO940000254	69309	Communications	Italy	16.000-27		Wireless Communications	
163 10	39446/1994	953799	McCaw Cellular Communications	Japan	22-Dec-94	26-Feb-96	Terminal Mireless Communications	Т
153.0F 4	942575	57901	McCaw Cellular Communications	Sweden	22-Dec-94	05-Jul-95	Terminal	$\top$
1.1000			McCaw Cellular	Cwoden	22-Dec-94	05-Jul-95	Wireless Communications Terminal	
153.SE.2	942576	57902	Communications	OWGOOD				
		300000	Teleflex Information Systems. Inc.	United States	04-Sep-01	16-Mar-04	Multithreaded Batch Processing System	
2001-TE001	09/944380	07.08220	Teleflex Information	United States	04-Jun-97	18-Dec-01	Multithreaded Batch Processing System	
2001-TE001	08/868942	6332101	Teleflex Information	States	19-Apr-94	16-Sep-97	Multithreaded Batch Processing System	$\neg \top$
2001-TE001	08/229526	5668993	Systems, Inc. Teleflex Information		30		Method and Apparatus for Processing Discrete Billing Events	~ b
2001-TE002	2184368		Systems, Inc.	Canada	C6-081-67		Method and Apparatus for Processing Discrete Billing	~ P
2001-TE002	08/698277	5724584	Teleflex Information Systems, Inc.	United States	19-Apr-94	03-Mar-98	Events No-Reset Option in a	1
2004 TE003	2184369		Teleflex Information Systems, Inc.	Canada	23-Feb-95		Batching Billing System	7
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2001-TE003	09/938827	6658488	Teleflex Information Systems, Inc.	United States	27-Aug-01	02-Dec-03	No-Reset Option in a Batching Billing System	in a System
2001-TE003	09/340384	6282519	Teleflex Information Systems, Inc.	United States	28-Jun-99	28-Aug-01	No-Reset Option in a Batch Billing System	in a Batch
2001-TE003	08/377610	5999916	Teleflex Information Systems, Inc.	United States	25-Jan-95	07-Dec-99	No-Reset Option In a Batching Billing System	In a System
2001-TE003.C1	10/622106		Teleflex Information Systems, Inc.	United States	17-Jul-03		No-Reset Option in a Batching Billing System	in a System

Form PTO-1595 (R. v. 09/04) 0 4 2006 U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office OMB No. 0651-00374(exp. RESORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies)/Execution Date(s): Name: Cingular Wireless II, Inc. AT&T Wireless Services, Inc. Internal Address: Suite 1700 Execution Date(s) 5/26/2005 Street Address: 5565 Glenridge Conn. Yes ✓ No Additional name(s) of conveying party(ies) attached? 3. Nature of conveyance: Merger City: Atlanta Assignment Change of Name Security Agreement State: Georgia Government Interest Assignment Zip: Country: USA Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? ☐ Yes ✓ No Other 4. Application or patent number(s): This document is being filed together with a new application. B. Patent No.(s) A. Patent Application No.(s) See Attached Sheets Additional numbers attached? ✓ Yes No 6. Total number of applications and patents 5. Name and address to whom correspondence involved: concerning document should be mailed: Name: Cingular Wireless, LLC 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 1320.00 Authorized to be charged by credit card Internal Address: Attn: Linda Giles; #1725A ✓ Authorized to be charged to deposit account **Enclosed** Street Address: 5565 Glenridge Connector None required (government interest not affecting title) 8. Payment Information City: Atlanta a. Credit Card Last 4 Numbers Zip: 30066 State: Georgia **Expiration Date** Phone Number: (404) 236-6720 b. Deposit Account Number 50-2450 Fax Number: Authorized User Name Coulter C. Henry Email Address: linda.giles@cingular.com 9. Signature: 5/26/2005 Date Signature Total number of pages including cover Coulter C. Henry; Reg. No.: 51,121 sheet, attachments, and documents: Name of Person Signing

Patent Applications Subject to Assignment Cingular Wireless II, Inc. May 26, 2005

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10/989,710	
10/940,576	
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10/939,366	

#### SECOND AMENDMENT TO PATENT ASSIGNMENT AGREEMENT

This Second Amendment To - PATENT ASSIGNMENT AGREEMENT is made this 26<sup>th</sup> day of May, 2005 and is added to and amends the PATENT ASSIGNMENT AGREEMENT by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") f/k/a AT&T Wireless Services, Inc. as ASSIGNOR and Cingular Wireless II, Inc., a Delaware corporation as ASSIGNEE, which the Patent Assignment Agreement is dated the 27<sup>th</sup> day of October, 2004.

Schedule A is hereby amended in accordance with the attached additions.

All other provisions in the Patent Assignment Agreement and Schedule A shall remain unchanged and in full force and effect.

[signatures on following pages]

#### Executed this 26th day of May, 2005.

Assignor: New Cingular Wireless Services, Inc. f/k/a

AT&T Wireless Services, Inc.

By:
Name:
Title:

Sean Foley
Vice President, Treasurer and Corporate Development

STATE OF
COUNTY OF

On this 26<sup>th</sup> day of May, 2005, before me, a Notary Public in and for the State and County foresaid, personally appeared
to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.,

Notary Public My Commission Expires:

da S. Diles

Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008 Acknowledged this 26th day of May, 2005.

Assignee: CINGULAR WIRELESS II, INC.

By: Name:

Title:

Sean Foley

Vice President, Treasurer and Corporate Development

APPROVED

TM M

ATTORNEY

STATE OF \_\_\_\_COUNTY OF

244

On this 13th day of May, 2005, before me, a Notary Public in and for the State and County foresaid, personally appeared known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008

Linda S. Giles

#### Schedule A (2<sup>nd</sup> Revision)

Docket	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
917 [[S	10/965 466		AT&T Wireless	USA	10/13/2004		Adjusting Link Layer Control Frame to Facilitate Data Throughput
200	44/AAD 253		AT&T Wireless	HSA	11/29/2004		A Method for Programming a Mobile Station Using a Permanent Mobile Station Identifier
904.03.C1	11/105 040		AT&T Wireless	USA	4/11/2005		Secure Online Purchasing
883118	11/054 695		AT&T Wireless	USA	2/10/2005		System and Method for a Telecommunications Network
8118	10/933 677		AT&T Wireless	USA	9/03/2004		System and Method for Data Organization and Display in an Instant-messaging Interface
282	11/007 450		AT&T Wireless	USA	4/01/2005		Adaptive Dual-polarization Communication of Orthogonal Frequency Division Multiplexed Signals
786 104	40,600,730		AT&T Wireless	NSA	8/30/2004		System and method for Data Scrambling to Reduce the Crest Factor in an OFDM Waveform
936.US	29/213,592		AT&T Wireless	NSA	20-Sep-2004	·	MOBILE COMMUNICATIONS DEVICE
<u>v</u> 1 908	10/090/108		AT&T Wireless	NSA	15-Nov-2004		SUBSCRIBER INDENTITY MODULE WITH VIDEO PERMISSIONS
896.US.D1	10/990,111		AT&T Wireless	USA	15-Nov-2004		PERSONAL BASE STATION WITH WIRELESS VIDEO CAPABILITY

#### Schedule A (2<sup>nd</sup> Revision)

Docket	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title
							METHOD, SYSTEMS AND APPARATUS FOR PROVIDING WIDELES IDENTIFICATION TO
863.US	10/990.105		AT&T Wireless	USA	15-Nov-2004		WIRELESS IDENTIFICATION TO STANDARD TELEPHONE
)   See	10/950 034		AT&T Wireless	USA	24-Sep-2004		A STANDARDS-BASED TERMINAL LOCATION SERVER SOLUTION FOR LOCATION APPLICATIONS
803 1 18	10/989 710		AT&T Wireless	USA	15-Nov-2004		OVER THE AIR PROGRAMMING/ACTIVATION FOR SIM ENABLED DATA DEVICE
50.000	10/040 578		AT&T Wireless	ISA	14-Sep-2004	·	DEDICATED WIRELESS DEVICE BUSINESS MODEL
034	10/030 103		AT&T Wireless	IISA	10-Sep-2004		ALWAYS ON MOBILE IM / MESSAGING CENTRIC WIRELESS DEVICE
924 US	10/959.553		AT&T Wireless	USA	06-Oct-2004		IMPROVING VOICE QUALITY BASED ON CUSTOMER FEEDBACK
SIIS	10/990 635		AT&T Wireless	NSA	17-Nov-2004		Method and System for Providing Location Information for emergency Services
156.US.020(3)	11/087,390		AT&T Wireless	USA	3/22/2005	·	Cyclic Trellis Coded Modulation
490.US.C1	10/943.500		AT&T Wireless	USA	9/17/2004		Methods and Systems for Communicating and Controlling Facsimile Information
577.US.C1	11/058.103		AT&T Wireless	USA	2/14/2005		System and Method for Providing an Adapter Module
577 US1	11/051 493		AT&T Wireless	USA	2/4/2005		System and Method for Providing an Adapter module
702.US.C1(2)	11/022.048		AT&T Wireless	USA	12/22/2004		Method for Frequency Division Duplex Communications
731.US.D1C2	11/018,780		AT&T Wireless	USA	12/21/2004		Low complexity Maximum Likelihood Detection of Concatenate space Codes for Wireless Applications

#### Schedule A (2<sup>nd</sup> Revision)

Docket	Application	Patent		Country	Application		
Number	Number	Number	Owner	Name	Date	<b>Grant Date</b>	Title
735.US.C1(1)	10/963,838		AT&T Wireless	USA	10/12/2004		Maximum Ratio Transmission
							System and Method for Providing
_							Location-based Services in a Wireless
							Network, Such as Providing
							Notification Regarding Meetings,
890.US	11/065,971		AT&T Wireless	NSA	2/24/2005		Destination Arrivals, and the Like
							System for Providing Location-based
							Services in a Wireless Network, Such
895.US.C1	10/984,618		AT&T Wireless	NSA	11/08/2004		as Locating Sets of Desired Locations
							Using Emoticons, Such as for
927.US.C1	11/092,511		AT&T Wireless	USA	3/28/2005	-	Wireless Devices
							Customer Service Messaging, Such
928.US.C1	11/092,199		AT&T Wireless	NSA	3/28/2005		as on Mobile Devices
							Method and System for controlling the
							Operation of Movable Wireless
908.US	10/938,569		AT&T Wireless	NSA	9/13/2004		Networks
							Method for Location-Based Asset
733.US.C1	10/939,366		AT&T Wireless	USA	9/14/2004		Management
							Method and System for Providing
	-						Data Communication with a Mobile
333.US.C1(1)	10/937,300		AT&T Wireless	USA	9/10/2004		Station
422.US.C1	11/017,787		AT&T Wireless	USA	12/22/2004		Integrated Number- Phase 1
301.US.C1(1)	11/036.159		AT&T Wireless	NSA	1/18/2005		Method and Apparatus for Message Transmission Verification

Supporting Documentation Showing

MAY 0 4 2006 vidence of Chain of Title for Patent Applications

FADENATE following documents represent evidence of the chain of title of all AT&T Wireless application to Cingular Wireless II, LLC.

- New Cingular Wireless Services, Inc. Secretary Certificate signed by Caroline Wilder, Assistant Secretary. This document certifies the following:
  - a) Agreement and Plan of Merger was entered into by AT&T Wireless Services, Inc. (ATTW), Cingular Wireless Corporation, Cingular Wireless, LLC and Links I Corporation whereby ATTW would be merged in to Links I. Whereby ATTW would be the survivor of the merger.
  - b) A true and correct copy of the Certificate of merger filed with the Delaware Secretary of State is attached and remains in effect.
  - c) As a result of the merger, ATTW becomes a wholly owned subsidiary of Cingular Wireless, LLC.
  - d) The name of ATTW was changed to New Cingular Wireless Services, Inc. on 10/24/2004.
  - e) A true and correct copy of the name change of ATTW is attached and remains in effect.
- 2) A true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State.
- 3) A true and correct copy of the name change of ATTW.
- 4) A true and correct copy of the <u>Certificate of Conversion</u> showing change of status of CWII, Inc to CWII, LLC.

#### NEW CINGULAR WIRELESS SERVICES, INC.

#### SECRETARY'S CERTIFICATE

I, Carolyn J. Wilder, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of New Cingular Wireless Services, Inc., a Delaware corporation, and as such I am authorized to execute this certificate. In such capacity, I further certify that:

- 1. An Agreement and Plan of Merger (the "Agreement") dated as of February 17, 2004 was entered into by and among AT&T Wireless Services, Inc., Cingular Wireless Corporation, Cingular Wireless LLC and Links I Corporation, a wholly-owned subsidiary of Cingular whereby AT&T Wireless Services, Inc. would be merged into Links I Corporation upon the terms and conditions of the Agreement, and AT&T Wireless Services, Inc. would be the survivor of the merger.
- 2. The merger of AT&T Wireless Services, Inc. into Links I Corporation was consummated on October 26, 2004.
- 3. The attached Exhibit "A" is a true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State and that said Certificate of Merger remains in full force and effect on the date hereof.
- 4. As a result of the consummation of the merger, AT&T Wireless Services, Inc. became a wholly-owned subsidiary of Cingular Wireless LLC.
- 5. The name of AT&T Wireless Services, Inc. was changed to New Cingular Wireless Services, Inc. on October 26, 2004.
- The attached Exhibit "B" is a true and correct copy of the Certificate of Amendment to The Certificate of Incorporation of AT&T Wireless Services, Inc. changing the name of the corporation to New Cingular Wireless Services, Inc. as filed with the Delaware Secretary of State and that said Certificate of Amendment to The Certificate of Incorporation remains in full force and effect on the date hereof.

IN WITNESS WHEREOF, I have subscribed my name as Assistant Secretary of the Company this 11<sup>th</sup> day of May, 2005.

Carolyn J. Wilder, Assistant Secretary

## Delaware

PAGE 2

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"LINKS I CORPORATION", A DELAWARE CORPORATION,

WITH AND INTO "AT&T WIRELESS SERVICES, INC." UNDER THE NAME OF "AT&T WIRELESS SERVICES, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 10:11 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

Warriet Smith Hindson

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3434252

DATE: 10-26-04

2131363 8100M

040725208

SEVENTH: This certificate of morger shall be effective upon its filing with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, this Certificate of Merger has been executed by the undersigned, a duly aumorized officer of the Surviving Corporation, on behalf of the Surviving Corporation as of the 26th day of October, 2004.

AT&T WIRELESS SERVICES, INC.

Bv

Name: John D.

Allex Chief Executive Officer

SEVENTH. Any action required or permitted to be taken by the holders of Common Stock of the corporation, including but not limited to the election of directors, may be taken by written consent or consents but only if such consent or consents are signed by all holders of Common Stock.

EIGHTH. A director of the corporation shall not be liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except to the extent that such exemption from liability or limitation thereof is not permitted under the Delaware General Corporation Law as currently in effect or as the same may hereafter be amended. No amendment, modification or repeal of this Article EIGHTH shall adversely affect any right or protection of a director that exists at the time of such amendment, modification or repeal.

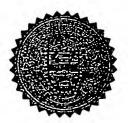
Delaware.

PAGE 1

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AT&T WIRELESS SERVICES, INC.", CHANGING ITS NAME FROM "AT&T WIRELESS SERVICES, INC." TO "NEW CINGULAR WIRELESS SERVICES, INC.", FILED IN THIS OFFICE ON THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 11:01 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3434831

DATE: 10-26-04

2131363 8100

040770545

State of Delaware Secretary of State Division of Corporations Delivered 11:23 AN 10/26/2004

### CERTIFICATE OF AMENDMENT FILED 11:01 AM 10/26/2004 TO THE SRV 040770545 - 2131363 FILE

### CERTIFICATE OF INCORPORATION OF

AT&T WIRELESS SERVICES, INC.

AT&T Wireless Services, Inc., a corporation organized and existing under and by virtue of the Delaware General Corporation Law (the "Corporation"), does hereby certify:

FIRST:

That on October 2, 2004, the Board of Directors of the Corporation adopted resolutions setting forth a proposed amendment to the Certificate of Incorporation of the Corporation, declaring said amendment to be advisable and submitting the proposed amendment to the sole stockholder of the Corporation for its consideration and approval. The proposed amendment is as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Certificate of Incorporation of the Corporation be amended by deleting the first paragraph in its entirety and replacing it with a new first paragraph to read as follows:

"FIRST. The name of the corporation is New Cingular Wireless Services, Inc."

SECOND:

That thereafter on October 2, 2004, said amendment was duly adopted by written consent of the sole stockholder of the Corporation in accordance with the provisions of Sections 228 and 242 of the Delaware General Corporation Law.

[Signature on following page]

IN WITNESS WHEREOF, AT&T Wireless Services, Inc. has caused this Certificate of Amendment to be signed by a duly authorized officer this 20th day of October, 2004.

AT&T WIRELESS SERVICES, INC.

By: Carelyn S. Yr.
Name: Carelyn J. Wilder

Title Assistant Scuretan

PAGE 1

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "CINGULAR WIRELESS II, INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "CINGULAR WIRELESS II, INC." TO "CINGULAR WIRELESS II, LLC", FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Hindson

3858251 8100V

040774599

AUTHENTICATION: 3437873

DATE: 10-27-04

@1007/012

State of Delaware Secretary of State Division of Corporations Delivered 10:47 AM 10/27/2004 FILED 10:27 AM 10/27/2004 SRV 040774599 - 3858251 FILE

#### CERTIFICATE OF CONVERSION OF CINGULAR WIRELESS II, INC. TO BECOME A LIMITED LIABILITY COMPANY

Pursuant to the provisions of Section 266 of the Delaware General Corporation Law and Section 18-214 of the Delaware Limited Liability Company Act, Cingular Wireless II, Inc., a Delaware corporation (the "Corporation"), submits the following Certificate of Conversion:

- 1. The name of the Corporation is Cingular Wireless II, Inc.
- 2. The date on which the Corporation's original Certificate of Incorporation was filed with the Secretary of State is September 22, 2004.
- The name of the limited liability company into which the Corporation is being converted
  is Cingular Wireless II, LLC.
- 4. The conversion has been approved by written consent of the sole stockholder of the Corporation pursuant to Section 228 of the Delaware General Corporation Law in accordance with the provisions of Section 266 of the Delaware General Corporation Law.
- 5. The conversion shall be effective at 8:45 p.m. EDT on October 27, 2004.

[Signature on following page]

IN WITNESS WHEREOF, Cingular Wireless II, Inc., has caused this Certificate of Conversion to be executed by a duly authorized officer this 27th day of October, 2004.

CINGULAR WIRELESS II, INC.

-2-

## Delaware

#### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "CINGULAR WIRELESS II, LLC" FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



AUTHENTICATION: 3437873

DATE: 10-27-04

3858251

040774599

State of Delaware Secretary of State Division of Corporations Delivered 10:47 AM 10/27/2004 FILED 10:27 AM 10/27/2004 SRV 040774599 - 3858251 FILE

### CERTIFICATE OF FORMATION OF CINGULAR WIRELESS IL, LLC

- 1. The name of the limited liability company is Cingular Wireless II, LLC.
- 2. The address of its registered office in the state of Delaware is Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, County of New Castle. The name of its registered agent at such address is The Corporation Trust Company.
- 3. This Certificate of Formation shall be effective at 8:45 p.m. EDT on October <u>27</u>, 2004.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Formation of Cingular Wireless II, LLC this 27<sup>th</sup>day of October, 2004.

Scott L. O'Melia An Authorized Person

¢

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#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vigniis 22313-1450 www.uspto.gov

APPLICATION NUMBER

FILING OR 371 (c) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

09/665,780

09/20/2000

Herman Chien

1999-0804

**CONFIRMATION NO. 6102** 

\*OC000000018695543\*

54499 WOODCOCK & WASHBURN LLP ONE LIBERTY PLACE 46TH FLOOR PHILADELPHIA, PA 19103

Date Mailed: 05/05/2006

#### NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/04/2006.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

OIPE (703) 308/9010

**OFFICE COPY** 



#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vuginia 22313-1450 www.uspto.gov

APPLICATION NUMBER FILING OR 371 (c) DATE FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

09/665,780

09/20/2000

Herman Chien

1999-0804

30083 PERKINS COIE LLP/AWS P.O. BOX 1247 SEATTLE, WA 98111-1247 CONFIRMATION NO. 6102

Date Mailed: 05/05/2006

#### NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/04/2006.

• The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

MONICA L YOUNG OIPE (703) 308-9010

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